



# STIC Search Report

## EIC 2100

STIC Database Tracking Number: 113343

TO: Gwen Liang

Location:

Art Unit : 2172

Tuesday, February 10, 2004

Case Serial Number: 09550451

From: Geoffrey St. Leger

Location: EIC 2100

PK2-4B30

Phone: 308-7800

[geoffrey.stleger@uspto.gov](mailto:geoffrey.stleger@uspto.gov)

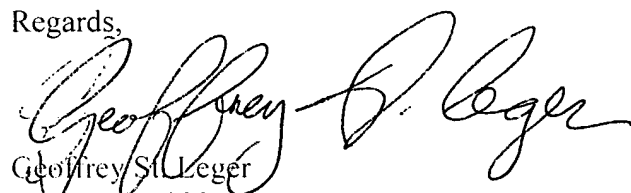
### Search Notes

Dear Examiner Liang,

Attached please find the results of your search request for application 09550451. I searched Dialog's foreign patent files, technical databases, product announcement files and general files.

Please let me know if you have any questions.

Regards,



Geoffrey St. Leger  
4B30/308-7800

File 347:JAPIO Oct 1976-2003/Oct(Updated 040202)

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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200409

(c) 2004 Thomson Derwent

Set	Items	Description
S1	839970	TABLE? ? OR ARRAY? ? OR MATRIX?? OR MATRICE? ? OR DATABASE? ? OR DATA()BASE? ?
S2	4921	(RELATIONSHIP? ? OR RELATE? ? OR RELATION? ? OR DEPENDEN? - OR ASSOCIATION? OR REPORT? OR CONSTRAINT? ? OR AFFILIATION? ? OR INTERRELATION? ?)(10N)(PARENT? ? OR CHILD? ? OR CHILDREN? ? OR LEAF? ? OR LEAVES OR NODE? ?)
S3	1085	(THIRD OR 3RD)(3W)S1
S4	26099	S1(3W)(THREE OR 3)
S5	422	(THIRD OR 3RD)(3W)TABLE? ?
S6	54939	SUMMAR? OR REPORT???
S7	5882	RELATIONAL OR RDBMS
S8	218	S3:S4 AND S6
S9	152	S8 AND IC=G06F
S10	8	S5 AND S6:S7
S11	0	S5 AND S2
S12	1	S9 AND S7
S13	82	S3:S4 AND S7
S14	76	S13 AND IC=G06F
S15	9	S3 AND S6
S16	10	S3 AND S7
S17	1	S3 AND S2
S18	19	S10 OR S12 OR S15:S17
S19	909	S6(10N)TABLE? ?
S20	19	S19 AND S2
S21	21	S19 AND S7
S22	40	S20:S21

18/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07815413 \*\*Image available\*\*  
SPECIFIC PERSON-CONCERNED AUTHENTICATION SUPPORT SYSTEM

PUB. NO.: 2003-309641 [JP 2003309641 A]  
PUBLISHED: October 31, 2003 (20031031)  
INVENTOR(s): AKIMA SHINOBU  
HOSHINA TAKASHI  
IKEZAWA YASUNORI  
APPLICANT(s): TECHNO SANGYO KK  
APPL. NO.: 2003-039011 [JP 200339011]  
FILED: February 17, 2003 (20030217)  
PRIORITY: 2002-040543 [JP 200240543], JP (Japan), February 18, 2002  
(20020218)  
INTL CLASS: H04M-001/57; H04M-003/42; H04M-003/51

#### ABSTRACT

PROBLEM TO BE SOLVED: To protect the safety of a constituent member against a criminal act due to a false name or successful impersonation by a third party except a specific person concerned, by instantaneously grasping whether a telephone originator may be decided as the person concerned of the constituent or not, and further instantaneously grasping the enrollment, the state of the constituent member.

SOLUTION: A specific person-concerned authentication support system comprises a first database for storing information regarding nursery school child, a second database for storing information regarding a guardian in relation to the guardian and the nursery school child, and a third database for storing telephone number of the guardian in relation to the guardian. When a call comes in at a telephone connected to a general public channel, whether an originator number included in its incoming signal is the telephone number stored in the third database or not is discriminated, and if the originator number is that stored in the third database, the information on the guardian and the nursery school child is displayed.

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18/5/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
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03028370 \*\*Image available\*\*  
METHOD FOR RETRIEVING RECORD OF RELATIONAL DATA BASE

PUB. NO.: 02-003870 [JP 2003870 A]  
PUBLISHED: January 09, 1990 (19900109)  
INVENTOR(s): HORIUCHI TAKASHI  
TSUCHIYA YUKIHISA  
NAKAMURA JINNOSUKE  
ITAKURA ICHIRO  
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP (Japan)  
NIPPON TELEGR & TELEPH CORP <NTT> [000422] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 63-152048 [JP 88152048]  
FILED: June 20, 1988 (19880620)  
INTL CLASS: [5] G06F-015/40  
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)  
JOURNAL: Section: P, Section No. 1022, Vol. 14, No. 138, Pg. 85, March 15, 1990 (19900315)

#### ABSTRACT

PURPOSE: To improve join processing performance by extracting the contents

of a join field from a first table, and setting up a retrieving condition in a second table, and retrieving a record to agree with this condition, and generating a third table, and join-processing the first and the third tables.

CONSTITUTION: The contents of the join field is extracted from a first table T1' retrieved before, and the extracted contents of the join field is added to the retrieving condition of a second table T2, and a new retrieving condition is set up, and only the record to agree with the retrieving condition is extracted from the second table of a relational data base on this retrieving condition, and a third table T2' is generated. Join processing is performed by considering the records of the first and the third tables to be objects. At this time, since all the records in the third table consist of the object records of join, unnecessary processing for the record with no possibility of the join can be excluded. Thus, the performance of the join processing can be improved.

18/5/4 (Item 4 from file: 347)  
DIALOG(R)File 347:JAPIO  
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01384049 \*\*Image available\*\*  
RELATIONAL ALGEBRA PROCESSOR

PUB. NO.: 59-095649 [JP 59095649 A]  
PUBLISHED: June 01, 1984 (19840601)  
INVENTOR(s): IWATA KAZUhide  
KOYANAGI SHIGERU  
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 57-206622 [JP 82206622]  
FILED: November 25, 1982 (19821125)  
INTL CLASS: [3] G06F-007/36; G06F-015/16  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.2 (INFORMATION PROCESSING -- Memory Units); 45.4  
(INFORMATION PROCESSING -- Computer Applications)  
JOURNAL: Section: P, Section No. 304, Vol. 08, No. 214, Pg. 28,  
September 29, 1984 (19840929)

#### ABSTRACT

PURPOSE: To speed up retrieval processing by storing flange data on the history of sorting processing in plural cascaded sorting engines and a merging engine connected to its final stage, and performing reverse sorting processing.

CONSTITUTION: For example, when a relation model shown in the 1st table of record numbers and names of pieces of music is given and the name of music with a number in the 2nd table is retrieved, record number data 4, 1, 7, 2 are inputted to the sorting engine SE(sub 1) in order and the data 4 and 7, and 1 and 2 are stored in memories M(sub 11) and M(sub 21) alternately. A processor P(sub 1) compares data with each other between the memories M(sub 11) and M(sub 21) and transfers then in increasing order to the next-stage engine SE(sub 2), thereby storing the data 1 and 4 in a memory M(sub 12) and the data 2 and 7 in a memory M(sub 22). Flag data 0, 1, 0, and 1 indicating the order of the data transfer are stored in order in the flag memory FM(sub 1) of the SE(sub 1). This operation is performed even by a processor P(sub 2) to store 0, 1, 0, and 1 in an FM(sub 2) and the sorting of the four input data at an SE(sub 2) is completed; and the result are stored in the memory of the merging engine ME and the 3rd table is obtained by reverse sorting.

18/5/5 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015865152 \*\*Image available\*\*

WI A No: 2004-022983/200402  
XREF Acc No: N04-017755

Application and resource data integration system, has query processor to create query plan for processing one of queries or updates against data resources, and liquefier to selectively convey plan to set of resource adaptors

Patent Assignee: BEA SYSTEMS INC (BEAS-N)  
Inventor: ANDRADE J; PATEL A  
Number of Countries: 102 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200398460	A1	20031127	WO 2003US15993	A	20030516	200402 B

Priority Applications (No Type Date): US 2003381026 A 20030515; US 2002381026 P 20020516

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200398460	A1	E	28	G06F-015/173	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

Abstract (Basic): WO 200398460 A1

NOVELTY - The system has a binder mechanism to bind a client request from a client application (102), and a query processor. The processor receives the requests and generates a query plan for processing one of queries or updates against data resources (120). A liquefier selectively communicates the query plan to a set of resource adaptors for operation upon the data resources.

DETAILED DESCRIPTION - The client request includes one of a request to retrieve or update data at the client from one or more of the data resources.

An INDEPENDENT CLAIM is also included for method of providing client access to resources.

USE - Used for integrating application and resource data.

ADVANTAGE - The system provides flexibility in adapting to changes in data sources and views, ease of application and data extension, data impedance from changes in data sources and reduced complexity in building applications. The system provides unified access to heterogeneous data, ability to contract development over less skilled resources, ability to focus development terms not on application development itself but on conversations and assembly of network applications.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of an application and resource data integration system.

Application or application portal (102)

Liquid data framework (104)

Liquid data engine (110)

Enterprise resource and planning system (112)

Integrated service provider (114)

Third-party relational database (116)

Data resources (120)

pp; 28 DwgNo 1/6

Title Terms: APPLY; RESOURCE; DATA; INTEGRATE; SYSTEM; QUERY; PROCESSOR; QUERY; PLAN; PROCESS; ONE; QUERY; UPDATE; DATA; RESOURCE; LIQUEFY; SELECT; CONVEY; PLAN; SET; RESOURCE; ADAPT

Derwent Class: T01

International Patent Class (Main): G06F-015/173

File Segment: EPI

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015617748 \*\*Image available\*\*

WPI Acc No: 2003-679908/200364

XRPX Acc No: N03-542838

**Data service personal information managing method, involves gathering information of entity from third -party database based on data identifying entity, and determining whether one information matches portion of another information**

Patent Assignee: ZINGHER A (ZING-I); ZINGHER J (ZING-I)

Inventor: ZINGHER A; ZINGHER J

Number of Countries: 102 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200371443	A1	20030828	WO 2003US5004	A	20030219	200364 B
US 20030163483	A1	20030828	US 200279050	A	20020219	200364

Priority Applications (No Type Date): US 200279050 A 20020219

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200371443	A1	E	35	G06F-015/16	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

US 20030163483 A1 G06F-007/00

Abstract (Basic): WO 200371443 A1

NOVELTY - The method involves obtaining personal information of an entity and a data to identify the entity. Another personal information from one **third -party database** (22) is gathered based on data that identifies the entity. The method also involves determining whether the former information matches a portion of another information. The matched information is stored in a local database of a data service.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a system for a data service.

USE - Method and system for controlled access to personal information associated with an individual e.g. credit **reports** .

ADVANTAGE - The data service actively makes sure that the personal information e.g. financial records, medical records, and trade secrets, is accurate so that businesses can rely on the personal information in making decisions.

DESCRIPTION OF DRAWING(S) - The drawing shows a network architecture of a data service that obtains and stores personal information associated with individuals.

Local database (14)

Processor (16)

Memory (18)

Communication network (20)

**Third party database** (22)

pp; 35 DwgNo 1/7

Title Terms: DATA; SERVICE; PERSON; INFORMATION; MANAGE; METHOD; GATHER; INFORMATION; ENTITY; THIRD; PARTY; DATABASE; BASED; DATA; IDENTIFY; ENTITY; DETERMINE; ONE; INFORMATION; MATCH; PORTION; INFORMATION

Derwent Class: T01

International Patent Class (Main): G06F-007/00; G06F-015/16

International Patent Class (Additional): G06F-015/173; G06F-017/00;

G06F-017/60; G06N-005/02

Segment: EPI

18/5/7 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015497351 \*\*Image available\*\*

WPI Acc No: 2003-559498/200352

WPIX Acc No: N03-444783

System for tracking stolen bicycles has search mechanism comparing lost and found item attributes and ordering search results by weight, number and type of matches

Patent Assignee: CENTRIC MEDIA INC (CENT-N)

Inventor: HOFFMAN D; HOLMES M; ORTON J R; RAPOSO P; ROMAN K A; VON CONTA R

Number of Countries: 101 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200358397	A2	20030717	WO 2002US41398	A	20021226	200352 B

Priority Applications (No Type Date): US 2002328350 A 20021223; US 2001344740 P 20011226

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200358397	A2	E	142	G06F-000/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

Abstract (Basic): WO 200358397 A2

NOVELTY - System comprises a database of entries representing property items tracked by the system with attributes including whether the item is registered, lost or found. It has a user interface allowing the user to retrieve database data, add entries etc. and a search mechanism automatically matching property items that are identified as lost and found to notify the user or owner. A distinctive label is attached to the item and database entries are organised on an organisation-property-individual model, there is a gateway to a third party **database**, and the database is dynamically extensible.

DETAILED DESCRIPTION - There are INDEPENDENT CLAIMS for:

- (1) A method of tracking property items
  - (2) A computer program for tracking property items
- USE - System is for tracking e.g. bicycles.

ADVANTAGE - System enables any type of property to be **reported** found, registered and **reported** lost so that it can be returned to its owner.

DESCRIPTION OF DRAWING(S) - The figure shows a diagram of lost, found and registered property.

pp; 142 DwgNo 3b/29

Title Terms: SYSTEM; TRACK; STOLEN; BICYCLE; SEARCH; MECHANISM; COMPARE; LOST; FOUND; ITEM; ATTRIBUTE; ORDER; SEARCH; RESULT; WEIGHT; NUMBER; TYPE; MATCH

Derwent Class: T01

International Patent Class (Main): G06F-000/00

File Segment: EPI

18/5/9 (Item 5 from file: 350)

FILED(R) File 350:Derwent WPIX

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014350151 \*\*Image available\*\*

WPI Acc No: 2002-170854/200222

Related WPI Acc No: 2002-314994

WRPX Acc No: N02-129971

Integrated change management unit has relational database management module that links database to other databases and tools module so that information item is available to database and tool module once entered

Patent Assignee: ALTERNATIVE SYSTEMS INC (ALTE-N)

Inventor: FERGUSON J D; FRANKLAND R; MITCHELL C M; POPOWSKI J E; STURGEON D  
H; SZIKLAI A T; VERMA A K

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6341287	B1	20020122	US 98215898	A	19981218	200222 B

Priority Applications (No Type Date): US 98215898 A 19981218

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6341287	B1	31	G06F-017/00	

Abstract (Basic): US 6341287 B1

NOVELTY - A tools module provides a software for the production of a **report** on operations at a facility and security measures implemented at the facility. A **relational** database management module links each database to the other databases and the tools module so that an information item becomes available to each database and the tools module once entered.

DETAILED DESCRIPTION - The first database provides a product stewardship for the selected material received, consumed or produced as a waste product at the facility. The second database allows the tracking and prevention of selected incidents involving unintended discharge of the material at the facility. The **third database** provides information on the monitoring of personnel health and safety at the facility. The fourth database provides information on and monitoring of hazardous materials and hazardous waste. The fifth database tracks a controlled release or discharge of the material to the environment. The sixth database provides selected information on regulatory requirements for receiving, handling, processing or producing hazardous materials. The seventh database provides selected information on the management of the facility.

USE - For management of information affected by regulatory changes e.g. changes in environmental, health and safety laws, non-regulatory changes.

ADVANTAGE - Does not require services of programmers to re-program or recode software items affected by change.

DESCRIPTION OF DRAWING(S) - The figure shows the relationship of four layers that are primary components of the integrated change management unit.

pp; 31 DwgNo 1/19

Title Terms: INTEGRATE; CHANGE; MANAGEMENT; UNIT; RELATED; DATABASE; MANAGEMENT; MODULE; LINK; DATABASE; TOOL; MODULE; SO; INFORMATION; ITEM; AVAILABLE; DATABASE; TOOL; MODULE; ENTER

Derwent Class: T01

International Patent Class (Main): G06F-017/00

File Segment: EPI

18/5/10 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013926884

WPI Acc No: 2001-411097/200144

XRAM Acc No: C01-124587

XRPX Acc No: N01-304184

**Delivering bio-product information, useful for guaranteeing the quality of a the bio-product or delivering gene information, comprises employing a computer program comprising a program code means for performing the method**

Patent Assignee: HITACHI LTD (HITA )

Inventor: IHARA S; KANAE H

Number of Countries: 026 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1111525	A2	20010627	EP 2000302221	A	20000317	200144 B
JP 2001243325	A	20010907	JP 200063287	A	20000303	200166



JP 2000123682 A 20000303  
 JP 2001243327 A 20010907 JP 200063287 A 20000303 200166  
 JP 3324594 B2 20020917 JP 200063287 A 20000303 200268

Priority Applications (No Type Date): JP 99360350 A 19991220

Patent Details:

Parent No Kind Lan Pg Main IPC Filing Notes

EP 1111525 A2 E 22 G06F-017/60

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

JP 2001243327 A 18 G06F-017/60

JP 2001243327 A 21 G06F-017/60 Div ex application JP 200063287

JP 3324594 B2 18 G06F-017/60

Previous Publ. patent JP 2001243327

Abstract (Basic): EP 1111525 A2

NOVELTY - Delivering bio-product information comprises employing a package containing a bio-product and a storage medium recording information concerning an information-reference database for the bio-product, a terminal for reading out an information-reference database, an information center connected to a network to permit access from the terminal, and a database connected to the network.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) delivering (M1) bio-product information, e.g. delivering primer information;

(2) a computer program comprising a program code means for performing M1; and

(3) primer or bio-product information delivered using M1.

USE - The methods are useful for delivering a variety of bio-product information, e.g. quality guarantee of a bio-product or delivering gene information. In particular, the methods are useful for delivering the latest information concerning the effects, efficacy or safety of bio-products.

pp; 22 DwgNo 0/10

File Terms: DELIVER; BIO; PRODUCT; INFORMATION; USEFUL; GUARANTEE; QUALITY  
 ; BIO; PRODUCT; DELIVER; GENE; INFORMATION; COMPRISE; EMPLOY; COMPUTER;  
 PROGRAM; COMPRISE; PROGRAM; CODE; PERFORMANCE; METHOD

Derwent Class: B04; D16; P85; T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): C12N-015/09; G06F-017/30;

G09F-003/00

File Segment: CPI; EPI; EngPI

18/5/11 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013455672 \*\*Image available\*\*

WPI Acc No: 2000-627615/200060

Related WPI Acc No: 1998-480748; 1998-483754; 1998-586314; 1998-586315;

1999-110780; 1999-180271; 1999-243510; 1999-468523; 1999-527168;

2000-282797; 2000-375363; 2001-006462; 2001-307267; 2001-366028;

2001-482282; 2001-512839; 2002-654805; 2002-711610

XRPX Acc No: N00-464960

Computer program product for use with relational database system,  
 generates three tables comprising columns assigned for object handle,  
 unique object characteristics and common characteristics

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: ANDERSON M P; CHENG J M; DONN S T; FALLSIDE D C; HA T Q; HEMBRY D  
 M; HO J C; JANG J; MATTOS N; NIBLACK C W; PETKOVIC D; TUNG F C; UHROWCZIK  
 J I; VO M P T; WILMOT G J; YANKER P C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6078925	A	20000620	US 95431513	A	19950501	200060 B
			US 95487988	A	19950607	

Priority Applications (No Type Date): US 95431513 A 19950501; US 95487988 A 19950501

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6078925	A		25	G06F-017/30	Div ex application US 95431513

Abstract (Basic): US 6078925 A

NOVELTY - A table (312) comprises a column for object handle created by user. A second table contains a column defining unique characteristics associated with complex datatype of object enabled within the table (312) and an additional column for object handle. A **third table** has a column for common characteristics associated with all objects in table (312) and two columns for object handle and object reference data.

DETAILED DESCRIPTION - The computer usable medium comprises the computer readable program code unit which causes the computer to create a **relational** extender for computer based **relational** database. An INDEPENDENT CLAIM is also included for complex datatype object storing method in user defined application database.

USE - For use with **relational** database system.

ADVANTAGE - User application development productivity is improved and development complexity is reduced. Helps database users to handle emerging new complex datatypes in advanced applications. Provides user with fast and efficient mechanism of accessing and manipulating complex data objects.

DESCRIPTION OF DRAWING(S) - The figure shows the interfaces between a **relational** extender and an application DBMS.

Table (312)

pp; 25 DwgNo 6/7

Title Terms: COMPUTER; PROGRAM; PRODUCT; RELATED; DATABASE; SYSTEM;

GENERATE; THREE; TABLE; COMPRISE; COLUMN; ASSIGN; OBJECT; HANDLE; UNIQUE;

OBJECT; CHARACTERISTIC; COMMON; CHARACTERISTIC

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

18/5/12 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013216040 \*\*Image available\*\*

WPI Acc No: 2000-387914/200033

XRAM Acc No: C00-117876

XRPX Acc No: N00-290358

**Handling and storing experimental data for drug discovery, etc**

Patent Assignee: CELLOMICS INC (CELL-N)

Inventor: BOYCE K S; DUNLAY T R; GLICK P W; MCKENNA B K

Number of Countries: 088 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200029984	A2	20000525	WO 99US26562	A	19991110	200033 B
AU 200016156	A	20000605	AU 200016156	A	19991110	200042
EP 1145149	A2	20011017	EP 99958879	A	19991110	200169
			WO 99US26562	A	19991110	
JP 20002530748	W	20020917	WO 99US26562	A	19991110	200276
			JP 2000582925	A	19991110	

Priority Applications (No Type Date): US 99142646 P 19990706; US 98108291 P 19981113; US 98110643 P 19981201; US 99140240 P 19990621; US 99142375 P 19990706

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200029984	A2 E		80	G06F-017/30	

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW  
AU 200016156 A G06F-017/30 Based on patent WO 200029984  
EP 1145149 A2 E G06F-017/30 Based on patent WO 200029984  
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI  
LU MC NL PT SE  
JP 2002530748 W 93 G06F-017/30 Based on patent WO 200029984

Abstract (Basic): WO 200029984 A2

NOVELTY - Experimental data is collected on a computer system by storing configuration information in sub-containers of an initialized container. Container **summary** data is calculated from **summary** data determined for each sub-container and stored in the container database. Each sub-container **summary** data is determined by collecting image data from a selected a sub-container and storing it in an image database and collecting feature data from the image data and storing it in a feature database. The sub-container **summary** data is then calculated from the image and feature data and stored in the sub-container.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) storing experimental data by creating three databases. The first database is used by a display application to view data collected from a container and has first set of entries linked to data collected from the container and stored in the second database. The first database has a second set of entries linked to the **third database** including image and feature data collected from sub-containers of the container.

(2) a computer readable medium as in (a).

(3) spooling experimental data in a computer system as in (a).

(4) a method for managing multiple database files by copying files to a multi-layer hierarchical store management system if they match a preset storage removal policy and replacing them with placeholder files linked to them.

(5) presenting experimental data from databases as in (a).

(6) a data storage system with a shared database, shared database file server, hierarchical storage system, pass through database and application programming interface. The management system includes a disk archive layer, optical jukebox layer, digital linear tape layer and store server.

(7) a computer readable medium with programming interfacers for collecting, storing and spooling image data and feature data, managing multiple database files and presenting experimental data at remote locations.

USE - The new method and apparatus may be used in drug discovery etc..

pp; 80 DwgNo 1b/12

Title Terms: HANDLE; STORAGE; EXPERIMENT; DATA; DRUG; DISCOVER

Derwent Class: B04; D16; J04; T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G01N-037/00

File Segment: CPI; EPI

18/5/13 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013110926 \*\*Image available\*\*

WPI Acc No: 2000-282797/200024

Related WPI Acc No: 1998-480748; 1998-483754; 1998-586314; 1998-586315;

1999-110780; 1999-180271; 1999-243510; 1999-468523; 1999-527168;

2000-375363; 2000-627615; 2001-006462; 2001-307267; 2001-366028;

2001-482282; 2001-512839; 2002-654805; 2002-711610

XRPX Acc No: N00-212849

Relational database extender for handling complex multimedia data types, includes data tables having specific columns for defining unique and common characteristics associated with an object

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )  
Inventor: ANDERSON M P; CHENG J M; DONN S T; FALLSIDE D C; HA T Q; HEMBRY D  
M; HO J C; JANG J; MATTOS N; NIBLACK C W; PETKOVIC D; TUNG F C; UHROWCZIK  
P P; VO M P T; WILMOT G J; YANKER P C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Parent No	Kind	Date	Applicat No	Kind	Date	Week
US 6047291	A	20000404	US 95431513	A	19950501	200024 B
			US 95548301	A	19951101	
			US 98114587	A	19980713	

Priority Applications (No Type Date): US 95431513 A 19950501; US 95548301 A  
19951101; US 98114587 A 19980713

Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
US 6047291	A		25	G06F-017/30	Cont of application US 95431513 Div ex application US 95548301 Div ex patent US 5799310

Abstract (Basic): US 6047291 A

NOVELTY - An application data table (312) having an user defined application database, has one column for storing a label for uniquely identifying an object associated with the object data, and another column for storing data type of the object data. Two other such tables contain respective columns for defining unique and common characteristics associated with the object.

DETAILED DESCRIPTION - One of the column in the second table contains the object identification label. One column in the **third table** contains the identification label for the object, and other column contains a reference to the object data associated with the object. A function corresponding to a complex data type, considers the object identification label as a parameter for manipulating the object data.

USE - For handling complex multimedia data types used for presentations, training, kiosk, interactive shopping, for decision support in retail buying or stock market analysis, video on demand, document management.

ADVANTAGE - Enables handling complex data types emerging from advanced applications such as multimedia, while maintaining application development productivity and reducing complexity.

DESCRIPTION OF DRAWING(S) - The figure shows interface between **relational** extender and application DBMS.

Application data table (312)  
pp; 25 DwgNo 6/7

Title Terms: RELATED; DATABASE; EXTEND; HANDLE; COMPLEX; DATA; TYPE; DATA;  
TABLE; SPECIFIC; COLUMN; DEFINE; UNIQUE; COMMON; CHARACTERISTIC;  
ASSOCIATE; OBJECT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

18/5/14 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012589122

WPI Acc No: 1999-395229/199933

Related WPI Acc No: 1999-371184; 1999-394872

XRAM Acc No: C99-116221

XRFX Acc No: N99-295401

#### Identification of interacting molecules

Patent Assignee: MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN (PLAC )

Inventor: BANCROFT D; LEHRACH H; WANKER E; WEDEMEYER N

Number of Countries: 084 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9931509	A1	19990624	WO 98EP7655	A	19981127	199933 B
AU 9917575	A	19990705	AU 9917575	A	19981127	199948

EP 1036329	A1	20000920	EP 98962397	A	19981127	200047
			WO 98EP7655	A	19981127	
EP 2002508517	W	20020319	WO 98EP7655	A	19981127	200222
			JP 2000539355	A	19981127	

Priority Applications (No Type Date): EP 97120880 A 19971127; EP 97120867 A 19971127; EP 97120879 A 19971127

Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
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WO 9931509	A1	E	191	G01N-033/543	
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Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9917575	A		G01N-033/543	Based on patent WO 9931509
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EP 1036329	A1	E	G01N-033/543	Based on patent WO 9931509
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

JP 2002508517	W		183	G01N-033/53	Based on patent WO 9931509
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Abstract (Basic): WO 9931509 A1

NOVELTY - Automatable methods for identification of member(s) of a pair or complex of interacting molecules.

DETAILED DESCRIPTION - A method (A) for the identification of member(s) of a pair or complex of interacting molecules from a pool of potentially interacting molecules, comprising:

(a) providing host cells containing at least two genetic elements with different selectable markers, the genetic elements each comprising genetic information specifying one of the potentially interacting molecules, the host cells further carrying a readout system that is activated upon the interaction of the molecules; and

(b) allowing at least one interaction, if any, to occur;

(c) selecting for the interaction by transferring host cells or progeny of host cells to a selective medium that allows identification of the host cells upon activation of the readout system; and

(d) identifying host cells that contain molecules that activate the readout system upon the selective medium;

(e) identifying at least one member of the pair or complex of interacting molecules;

where at least one of the steps (a), (c) or (d) is effected or assisted by automation creating or analysing a regular grid pattern of host cells.

INDEPENDENT CLAIMS are included for:

(1) an array of clones on a carrier produced by automation at a density greater than 5, where each clone comprises:

(a) a readout system or part of a readout system; and

(b) one genetic element or a combination of more than one genetic elements, the genetic element or elements each comprising a selectable marker and genetic information comprising one part of a multipart functional entity fused to one potentially interacting molecule;

(2) an array of clones not derived from yeast or bacterial cells on a carrier, each clone comprises:

(a) a readout system or part of a readout system; and

(b) one genetic element or a combination of more than one genetic elements, the genetic element or elements each comprising a selectable marker and genetic information comprising one part of a multipart functional entity fused to one potentially interacting molecule;

(3) an array of clones on a carrier, where each clone comprises:

(a) a readout system; and

(b) at least two genetic elements each encoding one part of a multipart functional entity fused to one interacting molecule, the interaction between the at least two interacting molecules reconstitutes the multipart functional entity, which in turn is able to activate the readout system;

(4) a kit comprising at least one of the following:

(a) a carrier comprising an array of clones as identified in claims

52 to 62; and/or

(b) a device allowing access to information on the computer readable memory characterising the clones in or on the carrier;

(5) a computer implemented method for, storing and analysing data relating to potential members of at least one pair or complex of interacting molecules encoded by nucleic acids originating from biological samples, the methods comprising;

(a) retrieving from a first data-table information for a first nucleic acid, the information comprises;

(i) a first combination of letters and/or numbers uniquely identifying the nucleic acid, and

(ii) the type of genetic element comprising the nucleic acid and

(iii) a second combination of letters and/or numbers uniquely identifying a clone in which a potential member encoded by the nucleic acid was tested for interaction with at least one other potential member of a pair or complex of interacting molecules;

(b) using the second combination of letters and/or numbers to retrieve from the first data-table or optionally further data-tables, information identifying additional nucleic acids encoding for the at least one other potential member in step (iii).

(6) a method for the identification of at least one member of a pair or complex of interacting molecules, comprising:

(a) providing host cells containing at least two genetic elements with different selectable markers, the genetic elements each comprising genetic information specifying one of the members, at least one of the genetic elements that further specifies an activation domain fusion protein additionally comprising a counterselectable marker, the host cells further carrying a readout system that is activated upon the interaction of the molecules;

(b) allowing at least one interaction, if any, to occur;

(c) selecting for the interaction by transferring progeny of the host cells in a regular grid pattern effected by automation to:

(i) at least one selective medium, the selective medium allows growth of the host cells only in the absence of the counterselectable marker and in the presence of a selectable marker; and/or

(ii) a further selective medium that allows identification of the host cells only on the activation of the readout system;

(d) identifying host cells that contain molecules that:

(i) do not activate the readout system on the at least one selective medium specified in (6, c, i); and

(ii) activate the readout system on the selective medium specified in (6, c, ii); and

(e) identifying at least one member of the pair or complex of interacting molecules;

(7) a data storage scheme comprising a data table that holds information on each member of an interaction, a record in the table represents each member of an interaction, and members are indicated to form interactions by sharing a common name.

USE - The method (A) can be used to find RNA-RNA, RNA-DNA, RNA-protein, DNA-DNA, DNA-protein, protein-protein, protein-peptide or peptide-peptide interactions (claimed). Inhibitors of the interactions can be used pharmaceutically (claimed).

The methods can be used for identifying a further molecule of a cascade of interacting molecules (claimed).

ADVANTAGE - Automation of the methods allows high throughput screening.

pp; 191 DwgNo 0/29

Title Terms: IDENTIFY; INTERACT; MOLECULAR

Derwent Class: B04; D16; S03; S05; T01

International Patent Class (Main): G01N-033/53; G01N-033/543

International Patent Class (Additional): C12M-001/00; C12N-015/09;

C12Q-001/02; C12Q-001/68; G01N-033/50; G01N-033/566; G01N-033/68;

G01N-037/00; G06F-017/30

File Segment: CPI; EPI

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011147553 \*\*Image available\*\*

WPI Acc No: 1997-125477/199712

KRPX Acc No: N97-103727

Information service system equipped with service data renewing function -  
has renewal part which carries out renewal of input of service data to  
data base provided at radio station

Patent Assignee: DAINI DENDEN KK (DAIN-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9008919	A	19970110	JP 95179421	A	19950622	199712 B

Priority Applications (No Type Date): JP 95179421 A 19950622

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 9008919	A		9 H04M-003/42	

Abstract (Basic): JP 9008919 A

The system makes use of a first data base (42) which is provided at a large information centre (40) which is connected with a telephone circuit and communicates with a portable communication terminal through a communication network (41). The first **report**, stopped price, a second data base (43) stores the national uniform data field and a **third data base** (44) stores the traffic information and event peculiar to each radio station (20) among multiple stations (1-N).

A memory (28) which stores the data base for bases is provided at the radio station. A renewal part (34) carries out the renewal of input of service data to the data base provided at the radio station and information service is performed to the demanded communication terminal.

ADVANTAGE - Reduces information service time and data renewal time and utilisation cost of communication circuit.

Dwg.1/12

File Terms: INFORMATION; SERVICE; SYSTEM; EQUIP; SERVICE; DATA; RENEW;  
FUNCTION; RENEW; PART; CARRY; RENEW; INPUT; SERVICE; DATA; DATA; BASE;  
RADIO; STATION

Derwent Class: W01; W02

International Patent Class (Main): H04M-003/42

International Patent Class (Additional): H04B-007/26; H04M-011/08

File Segment: EPI

18/5/16 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010401518 \*\*Image available\*\*

WPI Acc No: 1995-302831/199539

KRPX Acc No: N95-229904

Controlling access to database e.g. employee records or telecommunication network management - has three tables, one holding database and row tag, another with user name to user tag and security table defining user to row access permissions

Parent Assignee: BRITISH TELECOM PLC (BRTE )

Inventor: HART K

Number of Countries: 025 Number of Patents: 014

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2402792	A1	19950824	WO 95GB305	A	19950214	199539 B
AU 9516680	A	19950904	AU 9516680	A	19950214	199549
EP 745238	A1	19961204	EP 95908317	A	19950214	199702
			WO 95GB305	A	19950214	
NZ 279523	A	19970129	NZ 279523	A	19950214	199711
			WO 95GB305	A	19950214	
AU 676428	B	19970306	AU 9516680	A	19950214	199718
JP 9508995	W	19970909	JP 95521653	A	19950214	199746

KR 97701387	A	19970317	WO 95GB305	A	19950214	
			WO 95GB305	A	19950214	199813
			KR 96704507	A	19960814	
EP 745238	B1	19980506	EP 95908317	A	19950214	199822
			WO 95GB305	A	19950214	
SG 47531	A1	19980417	SG 962665	A	19950214	199826
DE 69502381	E	19980610	DE 602381	A	19950214	199829
			EP 95908317	A	19950214	
			WO 95GB305	A	19950214	
US 5787428	A	19980728	WO 95GB305	A	19950214	199837
			US 96693293	A	19960821	
ES 2117405	T3	19980801	EP 95908317	A	19950214	199838
CA 2182592	C	20000530	CA 2182592	A	19950214	200040
			WO 95GB305	A	19950214	
CN 1141091	A	19970122	CN 95191658	A	19950214	200047

Priority Applications (No Type Date): GB 942935 A 19940216

Cited Patents: 2.Jnl.Ref; EP 398645

#### Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
WO 9522792	A1	E	27	G06F-001/00	
Designated States (National): AU CA CN JP KR NZ US					
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE					
AU 9516680	A			G06F-001/00	Based on patent WO 9522792
EP 745238	A1	E	27	G06F-001/00	Based on patent WO 9522792
Designated States (Regional): BE CH DE DK ES FR GB IT LI NL SE					
NZ 279523	A			G06F-001/00	Based on patent WO 9522792
AU 676428	B			G06F-001/00	Previous Publ. patent AU 9516680
Based on patent WO 9522792					
JP 9508995	W		43	G06F-012/00	Based on patent WO 9522792
KR 97701387	A			G06F-001/00	Based on patent WO 9522792
EP 745238	B1	E	15	G06F-001/00	Based on patent WO 9522792
Designated States (Regional): BE CH DE DK ES FR GB IT LI NL SE					
SG 47531	A1			G06F-001/00	
DE 69502381	E			G06F-001/00	Based on patent EP 745238
Based on patent WO 9522792					
US 5787428	A			G06F-017/30	Based on patent WO 9522792
ES 2117405	T3			G06F-001/00	Based on patent EP 745238
CA 2182592	C	E		G06F-017/30	Based on patent WO 9522792
CN 1141091	A			G06F-001/00	

#### Abstract (Basic): WO 9522792 A

The main database (33) contains a table holding the rows of the **relational** database. Each row has a ROW TAG associated with it.

Another database table (35) contains the names of all users of the system. This provides a user TAG associated with each user.

A **third database table** (34) contains a correlation between ROW TAGs and USER TAG's. Hence when a user accesses the database the associated user TAG is identified which defines the ROW TAG's that may be accessed in the main database.

ADVANTAGE - Allows security to be applied across multiple users of database without using replication methods.

Dwg.8/10

Title Terms: CONTROL; ACCESS; DATABASE; EMPLOY; RECORD; TELECOMMUNICATION; NETWORK; MANAGEMENT; THREE; TABLE; ONE; HOLD; DATABASE; ROW; TAG; USER; NAME; USER; TAG; SECURE; TABLE; DEFINE; USER; ROW; ACCESS

Derwent Class: T01

International Patent Class (Main): G06F-001/00; G06F-012/00; G06F-017/30

International Patent Class (Additional): G06F-017/30

File Segment: EPI

18/5/17 (Item 13 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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010277756 \*\*Image available\*\*



WPI Acc No: 1995-179011/199523

XRPX Acc No: N95-140504

Semantic object modelling system for creating relational database schemes - enables user to associate attributes describing characteristic that all instances of semantic object have in common, with semantic objects corresp to number of relational tables defining database scheme

Patent Assignee: WALL DATA INC (WALL-N)

Inventor: EGGEBROTEN L I; KAWAI K; KROENKE D M; OLDS C C

Number of Countries: 060 Number of Patents: 015

Parent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9512172	A1	19950504	WO 94US10355	A	19940913	199523	B
AU 9479552	A	19950522	AU 9479552	A	19940913	199534	
WO 9601698	A	19960626	WO 94US10355	A	19940913	199636	
			NO 961698	A	19960426		
EP 727070	A1	19960821	EP 94930429	A	19940913	199638	
			WO 94US10355	A	19940913		
US 5548749	A	19960820	US 93145997	A	19931029	199639	
BR 9407897	A	19961119	BR 947897	A	19940913	199701	
			WO 94US10355	A	19940913		
AU 676395	B	19970306	AU 9479552	A	19940913	199718	
NZ 275544	A	19970526	NZ 275544	A	19940913	199727	
			WO 94US10355	A	19940913		
JP 9507106	W	19970715	WO 94US10355	A	19940913	199738	
			JP 95512611	A	19940913		
CN 1137320	A	19961204	CN 94194493	A	19940913	199805	
US 5809297	A	19980915	US 93145997	A	19931029	199844	
			US 96695000	A	19960809		
EP 727070	B1	19990512	EP 94930429	A	19940913	199923	
			WO 94US10355	A	19940913		
DE 69418474	E	19990617	DE 618474	A	19940913	199930	
			EP 94930429	A	19940913		
			WO 94US10355	A	19940913		
ES 2134959	T3	19991016	EP 94930429	A	19940913	199950	
MX 9602700	A1	19980101	MX 962700	A	19960709	199952	N

Priority Applications (No Type Date): US 93145997 A 19931029; US 96695000 A 19960809; MX 962700 A 19960709

Other Patents: Jnl.Ref; EP 560543

Parent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9512172 A1 E 99 G06F-017/30

Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA US UZ VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE

AU 9479552 A G06F-017/30 Based on patent WO 9512172

EP 727070 A1 E 99 G06F-017/30 Based on patent WO 9512172

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

US 5548749 A 65 G06F-015/40

BR 9407897 A G06F-017/30 Based on patent WO 9512172

AU 676395 B G06F-017/30 Previous Publ. patent AU 9479552

Based on patent WO 9512172

NZ 275544 A G06F-017/30 Based on patent WO 9512172

JP 9507106 W 131 G06F-017/30 Based on patent WO 9512172

US 5809297 A G06F-017/30 Cont of application US 93145997

Cont of patent US 5548749

EP 727070 B1 E G06F-017/30 Based on patent WO 9512172

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LT LU MC NL PT SE SI

DE 69418474 E G06F-017/30 Based on patent EP 727070

Based on patent WO 9512172

EP 2134959 T3 G06F-017/30 Based on patent EP 727070

WO 9601698 A G06F-017/30

CN 1137320 A G06F-017/30

MX 9602700 A1 G06F-009/00

Abstract (Basic): WO 9512172 A

The system allows a user to create a semantic object data model of the database schema. The semantic object data model is defined by one or more semantic objects, each of which includes one or more attributes that describe a characteristic of the semantic objects. The attributes are defined as being either simple value attributes that describe a single characteristic of the semantic object, group attributes that include one or more member attributes that collectively describe a characteristic of the semantic object, formula attributes that define a computation that describes a characteristic of a semantic object, or object link attributes that define a relationship between two or more semantic objects.

Once the semantic object model is created, the system validates the semantic objects to ensure that no modelling errors have been made, and transforms the semantic objects and their included attributes into a number of **relational** database tables that will store data as defined by the semantic object data model.

USE/ADVANTAGE - Allows user to easily produce database schema and create album that defines semantic object data model of number of **relational** database tables that define database schema.

Dwg.1/29

Title Terms: OBJECT; MODEL; SYSTEM; RELATED; DATABASE; SCHEME; ENABLE; USER; ASSOCIATE; ATTRIBUTE; DESCRIBE; CHARACTERISTIC; INSTANCE; OBJECT; COMMON; OBJECT; CORRESPOND; NUMBER; RELATED; TABLE; DEFINE; DATABASE; SCHEME

Derwent Class: T01

International Patent Class (Main): G06F-009/00; G06F-015/40; G06F-017/30

International Patent Class (Additional): G06F-012/00; G06F-019/00

File Segment: EPI

18/5/18 (Item 14 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010160090 \*\*Image available\*\*

WPI Acc No: 1995-061343/199509

XRFX Acc No: N95-048831

**Relational database for use by inspector at motor vehicle inspection facility - captures, stores, retrieves, and displays video images disclosing identification and location of vehicle emission control system components**

Patent Assignee: ENVIROTEST SYSTEMS CORP (ENVI-N)

Inventor: BOORSE R T; KOHN B R; SHOTWELL K R

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2102342	A	19941120	CA 2102342	A	19931103	199509 B
US 5414626	A	19950509	US 9363600	A	19930519	199524
CA 2102342	C	19990105	CA 2102342	A	19931103	199912

Priority Applications (No Type Date): US 9363600 A 19930519

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2102342	A		52	G06F-015/46	
US 5414626	A		22	G06F-017/30	
CA 2102342	C			G06F-017/40	

Abstract (Basic): CA 2102342 A

A computer system includes a **relational** database. The **relational** database is systematically created and updated. The database comprises three data libraries, one for ECS vehicle underhood images, one for ECS component overlays, and another for ECS component lists.

These libraries include visual and factual information regarding the identity and location of ECS required components for the vehicles. The libraries are maintained and used in the database to minimise storage space and maximise the speed of data access and display.

Dwg.1/13

Title Terms: RELATED; DATABASE; INSPECT; MOTOR; VEHICLE; INSPECT; FACILITY;  
CAPTURE; STORAGE; RETRIEVAL; DISPLAY; VIDEO; IMAGE; DISCLOSE; IDENTIFY;  
LOCATE; VEHICLE; EMIT; CONTROL; SYSTEM; COMPONENT  
Derwent Class: S02; T01  
International Patent Class (Main): G06F-015/46; G06F-017/30; G06F-017/40  
International Patent Class (Additional): G06F-019/00; G06K-009/20  
File Segment: EPI

18/5/19 (Item 15 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
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WPI 466967

WPI Acc No: 1993-160506/199320

WPIX Acc No: N93-123198

Facilitation method for configuring program parts of modules - using  
administration, request and reason tables to determine status of user  
requests, to help prepare new program configuration based on status.

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: LEMBLE P; MENANTEAU G; PACCHIANO S; SAGOLS G; TRUCHI A

Number of Countries: 004 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 541875	A1	19930519	EP 91480169	A	19911115	199320 B
US 5414846	A	19950509	US 92953363	A	19920930	199524

Priority Applications (No Type Date): EP 91480169 A 19911115

Cited Patents: 4.Jnl.Ref

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 541875	A1	E	21	G06F-009/44	

Designated States (Regional): DE FR GB

US 5414846 A 18 G06F-015/40

Abstract (Basic): EP 541875 A

The method involves building an administration table, in response to data entered by a user, which comprises the correspondence between each function of a program and a user assigned to that function. A request table is then built, in response to requests for creating or modifying program functions, based on a request number, a description of the requested work and the function assignee retrieved from the administration table.

A message is sent to the user stating the request number, etc., and a reason table (115) is constructed in response to users starting the work requested. By reading the reason table in response to a command from a user indicative that a configuration is to be started, a **report** of the status of the requests is prepared which helps the program administrator to prepare a new program configuration.

ADVANTAGE - Reduces time to configure program by significant factor.

Dwg.8b/11

Title Terms: FACILITATE; METHOD; PROGRAM; PART; MODULE; ADMINISTER; REQUEST  
; REASON; TABLE; DETERMINE; STATUS; USER; REQUEST; HELP; PREPARATION; NEW  
; PROGRAM; CONFIGURATION; BASED; STATUS

Derwent Class: T01

International Patent Class (Main): G06F-009/44; G06F-015/40

File Segment: EPI

22/5/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

05583484 \*\*Image available\*\*  
INFORMATION PROCESSOR AND SYSTEM AND METHOD THEREFOR

PUB. NO.: 09-198284 [JP 9198284 A]  
PUBLISHED: July 31, 1997 (19970731)  
INVENTOR(s): SHIMOYAMA AKIHIKO  
HAMAGUCHI KAZUMASA  
FUKUI TOSHIYUKI  
NAKAMURA SHUICHI  
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 08-008166 [JP 968166]  
FILED: January 22, 1996 (19960122)  
INTL CLASS: [6] G06F-012/00; G06F-012/00; G06F-012/00; G06F-012/00;  
G06F-012/08; H04L-012/00  
JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 44.3  
(COMMUNICATION -- Telegraphy)  
JAPIO KEYWORD: R012 (OPTICAL FIBERS); R131 (INFORMATION PROCESSING --  
Microcomputers & Microprocessors)

#### ABSTRACT

PROBLEM TO BE SOLVED: To reduce storage capacity and to maintain processing efficiency by reducing the storage capacity by storing incomplete information for information which is seldom accessed, updating this incomplete information to more complete information and generating and holding the information as information to be frequently accessed.

SOLUTION: A multicast destination recording table 142 stores entry information showing a multicast destination in the unit of blocks in which plural nodes are processed altogether. A recording table cache 630 converts the entry information into the entry information of the capacity corresponding to the detailed information in one node unit and stores the information. When a multicast request is generated from a node A 100 (B4), the multicast is executed based on the entry information stored in the recording table cache 630 (B6). Each node receiving this multicast reports the need of the multicast (B7). Based on this notification, an optical arbiter 610 updates the recording table cache 630 by a node unit.

22/5/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

05053411 \*\*Image available\*\*  
NETWORK MANAGEMENT SYSTEM

PUB. NO.: 08-008911 [JP 8008911 A]  
PUBLISHED: January 12, 1996 (19960112)  
INVENTOR(s): KOYAMA KEIICHI  
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 06-134559 [JP 94134559]  
FILED: June 16, 1994 (19940616)  
INTL CLASS: [6] H04L-012/28  
JAPIO CLASS: 44.3 (COMMUNICATION -- Telegraphy)

#### ABSTRACT

PURPOSE: To easily revise division management of a network in a short time by allowing a node managed in a broadcast form to store a management station name in a report destination table of the node upon the receipt of a management notice from a management station and sending node information of the node to the management station whose name is stored in the table.

CONSTITUTION: When a range of division management of a network (NW) is

revised, NW management stations 4a, 4b inform a prescribed message to all nodes in a broadcast form. The management station 4a sets an address A1 to a NW management station address 11 of the message and sets addresses 01-04 to an address set 14 of nodes to inform the addresses to the nodes. A node receiving the message revises a content of a memory (5a-5d) with the NW management station address A1 in the message when its own node address is in existence in the node address set 14. The NW management station 4b conducts the similar processing. Thus, the NW management station address of all the nodes in the NW is revised in a short time

22/5/4 (Item 4 from file: 347)

DIALOG(R)File 347:JAPIO

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04517959 \*\*Image available\*\*

DISTRIBUTED SHARED RESOURCE MANAGEMENT SYSTEM

PUB. NO.: 06-161859 [JP 6161859 A]

PUBLISHED: June 10, 1994 (19940610)

INVENTOR(s): TAKADA HISAYASU

APPLICANT(s): NIPPON TELEGR & TELEPH CORP <NTT> [000422] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 04-313659 [JP 92313659]

FILED: November 24, 1992 (19921124)

INTL CLASS: [5] G06F-012/00; G06F-015/16

JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 45.4 (INFORMATION PROCESSING -- Computer Applications)

JOURNAL: Section: P, Section No. 1799, Vol. 18, No. 489, Pg. 32, September 12, 1994 (19940912)

#### ABSTRACT

PURPOSE: To provide the distributed shared resource management system for easily holding the shared resources of the same contents even when the shared resources of respective nodes are changed in a system for which the number of nodes is comparatively large and the number of nodes is fluctuated.

CONSTITUTION: Respective nodes 10, 20 and 30 are provided with resources 11, 42 and 43 of the same contents. When the shared resources of present nodes are changed, the respective nodes 10, 20 and 30 change the shared resource state tables of present nodes, and control parts 12, 22 and 32 simultaneously report the execution of the changes of shared resource state tables as well as the execution of similar changes for shared resources as needed and the contents of the changes to the other nodes. On the other hand, when the multi-address information concerning the present node is received from the other node, the control part changes the contents of the shared resource state table of the present node and the contents of shared resources as needed based on the received contents. The respective nodes 10, 20 and 30 can always hold the shared resource state tables of required shared resources of the same contents.

22/5/5 (Item 5 from file: 347)

DIALOG(R)File 347:JAPIO

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03883540 \*\*Image available\*\*

DISTRIBUTED PROCESSING DEVICE FOR DOCUMENT LOGICAL STRUCTURE

PUB. NO.: 04-248640 [JP 4248640 A]

PUBLISHED: September 04, 1992 (19920904)

INVENTOR(s): YASUDA HIDETO

KASHIWAGI MASAYUKI

KATO AKIRA

KUDOU SHIGETOSHI

APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 03-014057 [JP 9114057]  
FILED: February 05, 1991 (19910205)  
INTL CLASS: [5] G06F-012/00; G06F-013/00; G06F-015/16; G06F-015/20  
INFO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 45.4  
(INFORMATION PROCESSING -- Computer Applications)  
INFO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers &  
Microprocessors)  
JOURNAL: Section: P, Section No. 1471, Vol. 17, No. 24, Pg. 36,  
January 18, 1993 (19930118)

ABSTRACT

PURPOSE: To enable users to write and generate documents in partnership with each document as a unit by updating, referring to, adding, and deleting substances of logical structures and attribute information of documents based on a structure medium independent of a specific machine type.

CONSTITUTION: A server 2 is provided with a node information table where structure mediums consisting of structure information of positional relations of tree structures of documents and attribute information of titles or the like is stored, and the structure medium reported from a client is expanded in the node information table and is generated; and when generation of a substance is instructed the structure medium of the whole of the document is displayed to select a pertinent node and an exclusive flag is turned on if being turned off, and the substance is generated in this state and is stored in accordance with the storage pointer of the node information table, and the exclusive flag is turned off.

22/5/13 (Item 5 from file: 350)  
WPI File 350: Derwent WPIX  
Thomson Derwent. All rts. reserv.

015067266 \*\*Image available\*\*  
WPI Acc No: 2003-127782/200312  
XRPX Acc No: N03-101412

SQL query optimization method in computer system, involves rewriting query such that primary query portion receives input from secondary query portion comprising relational operator between derived and other tables

Patent Assignee: INT BUSINESS MACHINES CORP (IBM )  
Inventor: COCHRANE R J; LAPIS G; LEUNG T Y; PIRAHESH M H; URATA M S  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6460027	B1	20021001	US 98152559	A	19980914	200312 B

Priority Applications (No Type Date): US 98152559 A 19980914  
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6460027	B1	36	G06F-017/30	

Abstract (Basic): US 6460027 B1

NOVELTY - A query definition of summary tables is incorporated into a query to create a query comprising two portions. The query is rewritten such that the primary portion receives input from output of secondary portion comprising a relational operator between a derived group table and other tables.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) SQL query optimization apparatus; and
- (2) Article of manufacture comprising storage medium storing SQL query optimization program.

USE - For optimizing SQL query in computer systems e.g. personal, mainframe, mini computers, etc.

ADVANTAGE - As the query is rewritten, so as to use the summary table, the complex and efficient subsumption tests among multiple queries can be performed, thereby the performance of the system is optimized.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of the SQL queries optimization process.

pp; 36 DwgNo 12/12

Title Terms: SQL; QUERY; OPTIMUM; METHOD; COMPUTER; SYSTEM; REWRITING;  
QUERY; PRIMARY; QUERY; PORTION; RECEIVE; INPUT; SECONDARY; QUERY; PORTION  
; COMPRISE; RELATED; OPERATE; DERIVATIVE; TABLE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

22/5/17 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014189093 \*\*Image available\*\*

WPI Acc No: 2002-009790/200201

XPX Acc No: N02-008158

Relational object provision system for database management system,  
applies predetermined relationship methods on corresponding objects to  
express their relationship between each base object

Patent Assignee: DAMAN INC (DAMA-N)

Inventor: GHATATE B

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6317749	B1	20011113	US 98164092	A	19980930	200201 B

Priority Applications (No Type Date): US 98164092 A 19980930

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6317749	B1		30	G06F-017/30	

Abstract (Basic): US 6317749 B1

NOVELTY - Several base objects in object oriented data warehouse, describe several integration sources including **relational** database **table**, conversion and **reporting** application. Several **relational** objects corresponding to base objects, include relationship method which is to be applied on corresponding objects to express relationship between each other.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) Machine readable medium which stores program for relationship object provision;

(b) Object-oriented data warehouse;

(c) Computerized **relational** object provision method

USE - For providing **relational** objects in multi-user system for database management system.

ADVANTAGE - Provides reusability for existing items, and simplifies maintenance of the system, and any number of different types of integration sources can be supported by the system.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of object-oriented data warehouse.

pp; 30 DwgNo 2/15

Title Terms: RELATED; OBJECT; PROVISION; SYSTEM; DATABASE; MANAGEMENT;  
SYSTEM; APPLY; PREDETERMINED; RELATED; METHOD; CORRESPOND; OBJECT;  
EXPRESS; RELATED; BASE; OBJECT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

22/5/19 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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04003824 \*\*Image available\*\*

WPI Acc No: 2001-488038/200153

Related WPI Acc No: 2000-181694  
XRPX Acc No: N01-361116

Database management method in computer system, involves generating summary table creation recommendation based on query statistics and accordingly creating summary table

Patent Assignee: ORACLE CORP (ORAC-N)  
Inventor: CAVE S D; LAVENDER R L; OSBORN A P  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6249791	B1	20010619	US 97962029	A	19971031	200153 B
			US 99314457	A	19990518	

Priority Applications (No Type Date): US 97962029 A 19971031; US 99314457 A 19990518

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6249791	B1	17	G06F-017/30	Cont of application US 97962029 Cont of patent US 6023695

Abstract (Basic): US 6249791 B1

NOVELTY - Query statistics indicating execution time and frequency of query, is generated for each of the queries submitted to a database system and stored in local statistics table. A summary table creation recommendation is generated based on the stored query statistics. A summary table is created automatically based on the generated summary table creation recommendation.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for recording medium storing database management program.

USE - For management of database such as relational database in computer systems.

ADVANTAGE - As summary tables can be created automatically, faster searching and retrieval of data is achieved using minimum system resources.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart depicting methodology for creating database summary table.  
pp; 17 DwgNo 5/7

Title Terms: DATABASE; MANAGEMENT; METHOD; COMPUTER; SYSTEM; GENERATE; SUMMARY; TABLE; CREATION; BASED; QUERY; STATISTICAL; ACCORD; SUMMARY; TABLE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

22/5/21 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012588032 \*\*Image available\*\*  
WPI Acc No: 1999-394139/199933  
Related WPI Acc No: 2002-065642  
XRPX Acc No: N99-294559

Source data records cross-tabulating method in computer system

Patent Assignee: BRIO TECHNOLOGY INC (BRIO-N)  
Inventor: EDHOLM K; EDHOLM Y H; GARTUNG D L; LEW K M; MCNALL K N  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5915257	A	19990622	US 94320635	A	19941011	199933 B
			US 96772830	A	19961224	

Priority Applications (No Type Date): US 94320635 A 19941011; US 96772830 A 19961224

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5915257	A	94	G06F-017/30	Cont of application US 94320635



Abstract (Basic): US 5915257 A

NOVELTY - A different structured **report** is formed by rearranging one of the side **table** levels and top label levels to change **relationship** between **nodes** of tree-type data structure without reaccessing the source data records, and forming newly corresponding aggregate values for display within the report.

DETAILED DESCRIPTION - A tree-type data structure is formed from received source data records that include side label levels and top label levels with nodes and cells. The appropriate aggregate value of a fact supported by the tree-type data structure is stored in each cell, so that when additional data records are received, the corresponding values are added to the appropriate aggregate value. An initial cross-tab rectilinear display report is formed from the cells of tree-type data structure having top label levels on top of report, and side label levels on side of the report with corresponding aggregate values displayed within the report.

USE - For cross tabulation analysis and reporting of tabular styled data on 2D array in computer system e.g. personal computer.

ADVANTAGE - Pivots and restructures cross-tabulation report easily and efficiently without requiring access to source data. Accumulates incoming stream of data records into a data structure which may then be used to form and restructure cross-tabulation report without necessity of storing the stream into computer memory. A separate data structure can be constructed from original data structure by modifying or deleting labels of cross- tab report.

DESCRIPTION OF DRAWING(S) - The figure shows flowchart for cross-tab report formation from tree-structure.

pp; 94 DwgNo 15/15

Title Terms: SOURCE; DATA; RECORD; CROSS; TABULATING; METHOD; COMPUTER; SYSTEM

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

22/5/22 (Item 14 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012141148 \*\*Image available\*\*

WPI Acc No: 1998-558060/199848

Related WPI Acc No: 2000-171718

XRPX Acc No: N98-435075

**Data classifying and indexing method for managing hierarchies in object orientated programming** - involves reading data groups containing key fields of items; generating key number and index with item indicators and adjusting or storing pointer to data group within stored index, based on checking of indicators against stored index

Patent Assignee: SAMPSON W C (SAMP-I)

Inventor: SAMPSON W C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2202217	A	19980518	CA 2202217	A	19970409	199848 B

Priority Applications (No Type Date): US 96751741 A 19961118

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

CA 2202217 A 36 G06F-007/24

Abstract (Basic): CA 2202217 A

The method involves reading a group of data entry records from a mass storage device of raw data. These records comprise key fields that contain items. A key number is generated representing the total number of key fields in the data entry records group. An index is then created with a predetermined number of key fields equal to the key number. The items in the key fields are mapped generating item indicators in each of the key fields of the index. (e.g. record group ADE is mapped to cell (25) in 3-D matrix (21) with key fields A,D, and E).

A stored index is checked to see if any of the item indicators exist in it already; if they do not then a pointer that enables the data entry record group to be located is stored in the index; otherwise the already present pointer scheme is altered to enable the record group to be located.

USE - Object orientated databases; secondary indexes for log files and **relational** database **tables**; real time parts analysis, schedules, quality **reports**, e.g. in stock room receiving deliveries.

ADVANTAGE - Achieves true object oriented organisation using minimum amount of memory space.

Dwg.1/4

Title Terms: DATA; CLASSIFY; INDEX; METHOD; MANAGE; OBJECT; ORIENT; PROGRAM  
; READ; DATA; GROUP; CONTAIN; KEY; FIELD; ITEM; GENERATE; KEY; NUMBER;  
INDEX; ITEM; INDICATE; ADJUST; STORAGE; POINT; DATA; GROUP; STORAGE;  
INDEX; BASED; CHECK; INDICATE; STORAGE; INDEX

Derwent Class: T01

International Patent Class (Main): G06F-007/24

File Segment: EPI

22/5/23 (Item 15 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012020029 \*\*Image available\*\*

WPI Acc No: 1998-436939/199837

Related WPI Acc No: 1997-132157

XRPX Acc No: N98-340479

**Hypertext reporting method in relational database management system - generates hypertext links in documents with associative records in relational database tables, for cross-referencing purposes**

Patent Assignee: BORLAND INT INC (BORL-N)

Inventor: HERRMANN C; TABB L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5787416	A	19980728	US 94283127	A	19940729	199837 B
			US 97796671	A	19970206	

Priority Applications (No Type Date): US 94283127 A 19940729; US 97796671 A 19970206

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5787416	A		47	G06F-017/30	Cont of application US 94283127 Cont of patent US 5603025

Abstract (Basic): US 5787416 A

The method involves receiving input specifying a first report which is based on information taken from a first subset of a set of **relational** database tables. The set of **relational** database **tables** includes records that provide access to stored information. The first **report** is a design document separate from the set of **relational** database tables and specifying display of a number of information items associated with records in the first subset of **tables**. Input specifying a second **report** is received which is based on information taken from a second subset of the set of **relational** database **tables**. The information items from the first and second **report** are combined into an hyper-text report. If information in the first report is related to information in the second **report** by virtue one of the second subset of **tables** with the particular field, an hypertext link is generated and the hypertext link is placed in the hypertext report for cross- referencing.

ADVANTAGE - Offers database-illiterate managers simple, direct on-line access not only to their usual reports, but also to related data needed to investigate and rectify discrepancies.

Dwg.7b/9

Title Terms: REPORT; METHOD; RELATED; DATABASE; MANAGEMENT; SYSTEM;  
GENERATE; LINK; DOCUMENT; ASSOCIATE; RECORD; RELATED; DATABASE; TABLE;

CROSS; REFERENCE; PURPOSE  
Derwent Class: T01  
International Patent Class (Main): G06F-017/30  
File Segment: EPI

22/5/27 (Item 19 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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010979719 \*\*Image available\*\*  
WPI Acc No: 1996-476668/199647  
XRPX Acc No: N96-402051

Relational database normalisation system for database management system  
- has computer-implemented entity relation management program that  
manipulates data in linker table to dynamically define many-to-many  
relationships among information entities

Patent Assignee: TRACE TECHNOLOGIES INC (TRAC-N)  
Inventor: OLSON M J; REIBERT D; SLOW S A  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5566333	A	19961015	US 92972230	A	19921105	199647 B

Priority Applications (No Type Date): US 92972230 A 19921105  
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5566333	A	38	G06F-017/30	

Abstract (Basic): US 5566333 A

The system includes a relational database stored in a memory that is accessible to a computer. The relational database consist of a relational database kernel, a number of information entities, and a linker table which holds a number of many-to-many relationships among the information entities. A computer-implemented entity relation management program manipulates data in the linker table to dynamically define many-to-many relationships among the information entities.

The many-to-many relationships in the relational database can be created and modified by a user to manage the relational database without structurally changing the relational database by one of creating and deleting tables. A computer-implemented report generating program co-operates with the relational database kernel to produce a coherent report that is informative of the relational database.

ADVANTAGE - Reduces table over head in relational database.  
Enables manager to economically attain specific level of human performance in complex enterprise.

Dwg.1/1

Title Terms: RELATED; DATABASE; NORMALISE; SYSTEM; DATABASE; MANAGEMENT; SYSTEM; COMPUTER; IMPLEMENT; ENTITY; RELATED; MANAGEMENT; PROGRAM; MANIPULATE; DATA; LINK; TABLE; DYNAMIC; DEFINE; RELATED; INFORMATION; ENTITY

Derwent Class: T01  
International Patent Class (Main): G06F-017/30  
File Segment: EPI

22/5/30 (Item 22 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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010391509 \*\*Image available\*\*  
WPI Acc No: 1995-292823/199538  
Related WPI Acc No: 1993-351184; 1995-147110; 1995-169023  
XRPX Acc No: N95-221516

Multi-dimensional search tree node database management system - forms  
summary data into data structure, contg. relational table, summary  
tree and key value tables for encoding dimensional field values, and

searches structure when user specifies sets by giving values for multiple attributes

Patent Assignee: DIMENSIONAL INSIGHT INC (DIME-N)

Inventor: POWERS F A; ZANAROTTI S R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5442784	A	19950815	US 90495360	A	19900316	199538 B
			US 9378396	A	19930617	

Priority Applications (No Type Date): US 90495360 A 19900316; US 9378396 A 19930617

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5442784	A		16	G06F-017/30	Div ex application US 90495360
					Div ex patent US 5257365

Abstract (Basic): US 5442784 A

A free form database, in the form of a summarised, multi-key tree, is built from files stored on the computer. After a building operation, the user obtains specified information by using the summarised database. Information in the files is divided into three categories: a dimension field which comprises data to be organised, a summary field which comprises a numeric quantity on which calculations can be performed, and a non-summary field which comprises other information associated with an input record. The internal nodes of the tree summarise and organise sets of input records.

The amount of storage space used is reduced by cutting off the tree when the size of sets goes below a given threshold, and parts of the tree are shared so that each record does not appear n! times in database.

USE/ADVANTAGE - For organising large amounts of data to be accessed by digital computer. Summarises information for large sets of data. Provides fast interactive access to summary information for different sets of input records.

Dwg.4/10

Title Terms: MULTI; DIMENSION; SEARCH; TREE; NODE; DATABASE; MANAGEMENT; SYSTEM; FORM; SUMMARY; DATA; DATA; STRUCTURE; CONTAIN; RELATED; TABLE; SUMMARY; TREE; KEY; VALUE; TABLE; ENCODE; DIMENSION; FIELD; VALUE; SEARCH; STRUCTURE; USER; SPECIFIED; SET; VALUE; MULTIPLE; ATTRIBUTE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

22/5/35 (Item 27 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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008129530 \*\*Image available\*\*

WPI Acc No: 1990-016531/199003

XPFX Acc No: N90-012676

**Data base management system - enforces referential consistency during large scale data base operations**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC ); IBM CORP (IBMC )

Inventor: HADERLE D J; WATTS J A

Number of Countries: 004 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 351210	A	19900117	EP 89307080	A	19890712	199003 B
US 4933848	A	19900612	US 88219512	A	19880715	199031
EP 351210	A3	19921014	EP 89307080	A	19890712	199340
EP 351210	B1	20000105	EP 89307080	A	19890712	200006
DE 68929132	E	20000210	DE 629132	A	19890712	200015
			EP 89307080	A	19890712	

Priority Applications (No Type Date): US 88219512 A 19880715

Cited Patents: No-SR.Pub; 2.Jnl.Ref

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 351210	A	E	22		
Designated States (Regional): DE FR GB					
EP 351210	B1	E		G06F-017/30	
Designated States (Regional): DE FR GB					
DE 68929132	E			G06F-017/30	Based on patent EP 351210
US 4933848	A		17		

Abstract (Basic): EP 351210 A

The enforcing of referential constraints in large-scale data-base operations such as loading of **relational** tables (10,12) are deferred. Initially the new rows are loaded in a data load phase (24) and information on the new rows and their constraints are extracted and sorted into a sorted key data set (68). Any primary indexes (22) required for constraint checking are then updated using the sorted key data set. The new rows are then checked for constraint violations, such violations being rectified to restore referential integrity and a deletion data set produced. This is merged and sorted with row information (53) stored during loading, to produce a discarded data set for subsequent reporting, correction and re-loading.

4/9

Title Terms: DATA; BASE; MANAGEMENT; SYSTEM; CONSISTENCY; SCALE; DATA; BASE  
; OPERATE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-009/00; G06F-015/40

File Segment: EPI

File 348:EUROPEAN PATENTS 1978-2004/Jan W05

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040205,UT=20040129

(c) 2004 WIPO/Univentio

Set	Items	Description
S1	697319	TABLE? ? OR ARRAY? ? OR MATRIX?? OR MATRICE? ? OR DATABASE? ? OR DATA()BASE? ?
S2	18278	(RELATIONSHIP? ? OR RELATE? ? OR RELATION? ? OR DEPENDEN? - OR ASSOCIATION? OR REPORT? OR CONSTRAINT? ? OR AFFILIATION? ? OR INTERRELATION? ?)(10N)(PARENT? ? OR CHILD? ? OR CHILDREN? ? OR LEAF? ? OR LEAVES OR NODE? ?)
S3	5496	(THIRD OR 3RD)(3W)S1
S4	131147	S1(1W)(THREE OR 3)
S5	2718	(THIRD OR 3RD)(3W)TABLE? ?
S6	1833551	SUMMAR? OR REPORT???
S7	8513	RELATIONAL OR RDBMS
S8	240	S3(50N)S6
S9	60	S3(50N)S7
S10	8	S3(50N)S2
S11	80	S8 AND IC=G06F
S12	59	S9:S10 AND IC=G06F
S13	225	S5(100N)S6
S14	36	S13 AND IC=G06F
S15	66423	S6(10N)TABLE
S16	201	S15(100N)S2
S17	118	S15(100N)S7
S18	53	S16 AND IC=G06F
S19	51	S18 NOT S14
S20	93	S17 AND IC=G06F
S21	90	S20 NOT (S14 OR S19)
S22	9	S21/TI,AB,CM
S23	81	S21 NOT S22
S24	507	S23 AND IC=G06F-017
S25	31	S23 NOT S24

14/5,K/6 (Item 6 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00495621

Method for facilitating the configuration of programs.  
Verfahren zur Erleichterung der Konfiguration von Programmen.  
Procede pour faciliter la configuration des programmes.

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 541875 A1 930519 (Basic)

APPLICATION (CC, No, Date): EP 91480169 911115;

PRIORITY (CC, No, Date): EP 91480169 911115

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-009/44

CITED REFERENCES (EP A):

PROCEEDINGS OF THE IEEE 1988 NATIONAL AEROSPACE AND ELECTRONICS  
CONFERENCE, NAECON 1988 vol. 2/4, 23 May 1988, DAYTON, US pages 600 -  
607; K. NIX: 'CHANGE AND CONFIGURATION CONTROL IN ADA ENVIRONMENTS: THE  
"STONEMAN" PERSPECTIVE REVISITED'  
AT & T TECHNICAL JOURNAL. vol. 67, no. 4, July 1988, NEW YORK, US pages  
59 - 70; S. CICHINSKI ET AL.: 'PRODUCT ADMINISTRATION THROUGH SABLE AND  
NMAKE'  
IBM TECHNICAL DISCLOSURE BULLETIN. vol. 32, no. 3B, August 1989, NEW  
YORK, US pages 50 - 56; 'MULTIPLE MAINTENANCE LIBRARY SUPPORT SYSTEM'  
CONFERENCE ON SOFTWARE TOOLS 15 April 1985, NEW YORK, NY, US pages 100 -  
103; A. LOBBA: 'AUTOMATED CONFIGURATION MANAGEMENT';

ABSTRACT EP 541875 A1

A method implemented by a data processing system 10 accessible to users  
through workstations for facilitating the operation of configuring a  
program comprising a plurality of functions made of a plurality of parts  
(modules).

An administration table is built in response to data entered by a user  
at a workstation. The table comprises the correspondence between each  
function of a program and a user assigned to said function. A request  
table is built in response to requests for creating or modifying  
specified functions, said requests originating from users and said second  
table comprising for each request, a request number, a description of the  
requested work, the function assignee retrieved from the first table.  
Then, a message is sent to any function assignee corresponding to a  
request stored in the second table, said message comprising the request  
number, the description of the requested work to inform the function  
assignee. A reason table is built in response to users starting the work  
requested per a selected request, said **third table** comprising for  
each request number, a status set to a first value (USER) when a user is  
making the work, to a second value when the work is completed, and to a  
third value when the function is integrated in a program configuration.  
By reading the reason table in response to a command from a user  
indicative that a configuration is to be started, a **report** of the  
status of the requests is prepared which helps the program administrator  
to prepare a new configuration of a program. (see image in original  
document)

ABSTRACT WORD COUNT: 262

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 930519 A1 Published application (A1with Search Report  
;A2without Search Report)  
Examination: 931110 A1 Date of filing of request for examination:  
930918  
Withdrawal: 960828 A1 Date on which the European patent application  
was withdrawn: 960704

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	887
SPEC A	(English)	EPABF1	3949
Total word count - document A			4836
Total word count - document B			0
Total word count - documents A + B			4836

INTERNATIONAL PATENT CLASS: G06F-009/44

...ABSTRACT requested work to inform the function assignee. A reason table is built in response to users starting the work requested per a selected request, said **third table** comprising for each request number, a status set to a first value (USER) when a user is making the work, to a second value when...

...a program configuration. By reading the reason table in response to a command from a user indicative that a configuration is to be started, a **report** of the status of the requests is prepared which helps the program administrator to prepare a new configuration of a program. (see image in original...

...SPECIFICATION number and the description of the requested work,  
building a reason table in response to users starting the work requested per a selected request, said **third table** comprising for each request number, a status set to a first value (USER) when a user is making the work, to a second value when the work is completed, and to a third value when the function is integrated in a program configuration,  
reading said **third table** in response to a command from a user indicative that a configuration is to be started, for preparing a **report** of the status of the requests.

The major advantage of the present invention results from the use of the reason table, which makes the link...

...CLAIMS function assignee corresponding to a request stored in the second table, said message comprising the request number, the description of the requested work,

building a **third table** (115) in response to users starting the work requested per a selected request, said **third table** comprising for each request number, a status set to a first value (USER) when a user is making the work, to a second value when the work is completed, and to a third value when the function is integrated in a program configuration,

reading said **third table** in response to a command from a fourth user indicative that a configuration is to be started, for preparing a **report** of the status of the requests.

2. The method according to claim 1, characterized in that each function comprises at least one module of code...

14/5,K/32 (Item 25 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00422208 \*\*Image available\*\*

METHOD AND APPARATUS FOR PROCESSING CLINICAL TRIAL DATABASES

PROCEDE ET DISPOSITIF POUR TRAITER DES BASES DE DONNEES D'ESSAIS CLINIQUES

Patent Applicant/Assignee:



PHARM-DATA INC,

Inventor(s):

KANTER Donald R,  
FINN Andrew L,  
SAWYER William T,  
CHAO-YING Hsieh,  
HOUSER Vincent P,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9812669 A1 19980326

Application: WO 97US16629 19970918 (PCT/WO US9716629)

Priority Application: US 9626322 19960918

Designated States: AU CA JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT  
JP

Main International Patent Class: G06T-011/00

International Patent Class: G06F-17:30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5020

English Abstract

A method and apparatus for facilitating review of clinical data provides a point-and-click, menu-driven approach for reviewing, analyzing, and graphing clinical data (30, 32, 34, 36, 38 and 40). Real-time access to clinical information in electronic databases is provided so as to permit clinicians to obtain information in a timely manner. A user is provided with the ability to browse patient profiles (32), perform data queries, reclassify numeric and character variables, create and analyze variable subgroups (74), create basic summary tables (42) and graphic data displays (58). The invention eliminates the time-consuming and problematic conversion step. The invention has the ability to export statistical databases to popular existing data formats. No programming experience is required for using this system.

French Abstract

Un procede et un dispositif facilitant l'etude de donnees cliniques fournissent une approche par pointer/cliquer et par menus, qui permet d'etudier, d'analyser et de représenter par des graphiques des donnees cliniques (30, 32, 34, 36, 38, 40). L'accès en temps reel aux informations cliniques contenues dans des bases de donnees électroniques permet aux cliniciens d'obtenir des informations en temps utile. L'utilisateur a la possibilite de parcourir les profils des patients (32), de faire des recherches de donnees, de reclassifier des variables numeriques et de type caractere, de creer et d'analyser des sous-ensembles de variables (74), de creer des tables de resumes de base (42) et des affichages graphiques de donnees (58). L'invention elimine l'etape de conversion, problematique et couteuse en temps. Elle permet d'exporter des bases de donnees statistiques dans des formats de donnees existants bien connus. Aucune experience de la programmation n'est necessaire pour utiliser ce systeme.

International Patent Class: G06F-17:30

Fulltext Availability:

Detailed Description

Detailed Description

... lot of popular graphic formats such as bmp, gif, pcx, etc.

The Table Module in the invention can be used to generate three types of **summary** tables. It provides descriptive statistics such as means, standard deviations, and number of observations. The **third** style **table** module provides the option to count the number of patients or the number of observations in the output table.

I 0 After an administrator sets...choose up to four grouping variables. This will create a separate table for each grouping variable combination.

The second style table 46 is appropriate for **summarizing** continuous variables such as age, weight, or height by classification variables such as race, sex, and treatment.

This style can be used to present upThe **third style table** 48 is appropriate for creating a 2-way cross-classification table such as treatment by race. The table gives the frequency and percent of each...

...up to two row classification variables to be presented in a single table.

The graph subrnodule 58 is designed to create a variety of graphs **summarizing** 1 5 the data. Output from the graph subrnodule 58 can be customized by adding a title and/or a footnote. Options such as title...

14/5,K/33 (Item 26 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00402960 \*\*Image available\*\*  
FLIGHT MANAGEMENT SYSTEM PROVIDING FOR AUTOMATIC CONTROL DISPLAY UNIT  
BACKUP UTILIZING STRUCTURED DATA ROUTING  
SYSTEME DE GESTION DE VOL A MISE EN OEUVRE AUTOMATIQUE D'UN PANNEAU  
D'AFFICHAGE ET DE COMMANDE DE SECOURS UTILISANT UN ACHEMINEMENT  
STRUCTURE DES DONNEES  
Patent Applicant/Assignee:  
THE BOEING COMPANY,  
Inventor(s):  
HAYES James D,  
GUNN Peter D,  
HERALD Richard A,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 9743704 A1 19971120  
Application: WO 97US8117 19970514 (PCT/WO US9708117)  
Priority Application: US 9617874 19960514  
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES  
FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW  
MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN GH KE LS MW  
SD SZ UG AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT  
LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG  
Main International Patent Class: G05D-001/00  
International Patent Class: G01C-23:00; G06F-11:00 ; G06F-11:20  
Publication Language: English  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 4604

#### English Abstract

An improved aircraft flight management system includes a flight management computer (FMC), left and right control display units (CDU's) and a backup CDU. A triple redundant digital databus links the FMC and three CDU's. Upon detecting a failure in either the left or right CDU, the FMC utilizes reconfiguration rules stored in a look-up table to automatically cause the backup CDU to replace the failed CDU in operation, thereby relieving the flight crew of the burden of interfacing to the FMC through only one CDU. Upon detection of a failed databus, the system similarly utilizes structured data routing to reconfigure around the failed databuses. In addition, if any two CDU's have failed in a three CDU system, automatic data rerouting is implemented to the non-failed CDU to insure FMC to CDU communication.

#### French Abstract

Système ameliore de gestion de vol qui comporte un ordinateur de gestion de vol (FMC), des panneaux d'affichage et de commande (CDU) droite et gauche et un CDU de secours. Un bus de donnees numerique redondant triple relie le FMC et les trois CDU. Des qu'il detecte une defaillance dans le CDU droit ou gauche, le FMC utilise des regles de reconfiguration placees

en memoire dans une table de recherche pour que le CDU de secours remplace automatiquement le CDU en etat de defaillance, ce qui enleve ainsi au personnel de vol le fardeau de devoir communiquer avec le FMC par l'intermediaire d'un CDU uniquement. En cas de detection d'une defaillance d'un bus de donnees, le systeme utilise de maniere similaire un acheminement structure de donnees pour modifier la configuration autour des bus de donnees defaillants. De plus, si deux CDU quelconques du systeme a trois CDU presentent une defaillance, les donnees sont automatiquement reacheminees vers le CDU non defaillant pour assurer une communication FMC-CDU.

...International Patent Class: G06F-11:00 ...

... G06F-11:20

Fulltext Availability:  
Detailed Description

Detailed Description

... CDU's will operate.

3. The selected set of CDU's should minimize the flight deck effect of failures,  
To support the analysis of the **third** criteria above, the **table** of Figure 6 **summarizes** CDU transitions which can occur as the result of a single failure using the reconfiguration rules set forth in the Figures 5A, 5B and 5C...

14/5,K/34 (Item 27 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00358745 \*\*Image available\*\*

METHOD AND APPARATUS FOR THE GENERATION, MANIPULATION AND DISPLAY OF DATA STRUCTURES

PROCEDE ET APPAREIL POUR LA CREATION, LA MANIPULATION ET LA VISUALISATION DE STRUCTURES DE DONNEES

Patent Applicant/Assignee:

PRIME ARITHMETICS INC,

Inventor(s):

LETOURNEAU Jack J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9641259 A1 19961219

Application: WO 96US8914 19960603 (PCT/WO US9608914)

Priority Application: US 95486351 19950607

Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB

GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ

PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN KE LS MW SD SZ UG AM

AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT

SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class: G06F-009/44

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 12065

English Abstract

A method and apparatus for generating, manipulating, and displaying a universal set of data structures is disclosed. A Table Facility generates and stores tokens and a Logic Processor communicates with external host programs and performs arithmetic and logical manipulations of the tokens in response to requests from the host program. The tokens can be tested and used as any currently known data structure, including but not limited to binary trees and linked lists, as well as being versatile enough to emulate new data structures. The method used to create the data structures is such that many database operations, such as comparison of files and data or their merging, proceed much faster on the present

invention than known in the art.

#### French Abstract

Procédé et appareil pour la création, la manipulation et la visualisation d'un référentiel de structures de données. Une fonction du type table crée et stocke des jetons et un processeur logique communique avec des programmes hôtes externes et effectue des manipulations arithmétiques et logiques des jetons en réponse à des demandes émises par le programme hôte. On peut tester et utiliser les jetons de la même façon que toute structure de données actuellement connue, notamment mais non exclusivement les arbres binaires et les listes chaînées, mais lesdits jetons sont suffisamment polyvalents pour émuler de nouvelles structures de données. Le procédé utilise dans la création des structures de données est tel que de nombreuses opérations effectuées dans les bases de données, par exemple la comparaison ou la fusion de fichiers, se déroulent nettement plus vite dans l'appareil de l'invention que dans les appareils connus de l'état de la technique.

Main International Patent Class: G06F-009/44

Fulltext Availability:

Detailed Description

#### Detailed Description

... Prolog formulas

Unless otherwise instructed, the Logic Processor, after accepting and preprocessing its input, begins a systematic search for a constant or witness in the

third column of the table created by the table facility

The formulae received by the Logic Processor are standard first-order formulas and are thought to be interpreted over a...

...by the Table Facility, each possible candidate for such a witness W. If a satisfactory witness is found at any given moment, the Logic Processor reports success to a Language Interface coupled to the host program. If the

19/5,K/8 (Item 8 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00921494

**System for performing intelligent analysis and segmentation of a computer database**

**System zur intelligenten Analyse und Segmentierung einer Rechnerdatenbank**  
**Systeme pour executer l'analyse intelligente et la segmentation d'une base de donnees informatique**

PATENT ASSIGNEE:

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AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE)

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PATENT (CC, No, Kind, Date): EP 840240 A2 980506 (Basic)

APPLICATION (CC, No, Date): EP 97308374 971021;

PRIORITY (CC, No, Date): US 742006 961031; US 742007 961031

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;  
MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 840240 A2

A system for performing intelligent analysis, segmentation and partition of a database based upon attributes associated with the data in the database are provided. A report may be generated which allows a user to make decisions, without requiring the user to understand or interpret data itself. A database computer includes a database containing the data. The data includes a collection of information about an enterprise of the user. A server computer is coupled to the database computer and executes a database management program. A client computer is coupled to the server and executes an application program. The application program allows a user to define predetermined data types, to define relationships between the data types, to define parameters for the report, to define a method of analysis for the report, and to create the report. The report summarizes the data in terms of the data types, the data relationships and the method of analysis.

ABSTRACT WORD COUNT: 154

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 980506 A2 Published application (Alwith Search Report  
;A2without Search Report)

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9819	672
SPEC A	(English)	9819	24517
Total word count - document A			25189
Total word count - document B			0

Total word count - documents A + B 25189  
INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION for the difference between two values of the target measure (or the difference between the target and comparison measures for the Measure Comparison Analysis). The **Summarization** Analysis will not contain a Measure Relations paragraph. **Table - A table** showing all the measure values **reported** during the analysis  
Segments other than the **Parent**, Target or Comparison segment may be linked as hyperlinks (see again, e.g., Fig. 12). The underlying HREF will contain the information required to substitute...

19/5,K/10 (Item 10 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00367286

**Data base management system**  
**Datenbankverwaltungssystem**  
**Systeme de gestion de base de donnees**  
PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,  
Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

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Haderle, Donald James, 812 Lilac Way, Los Gatos, CA 95030, (US)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 360387 A2 900328 (Basic)  
EP 360387 A3 921014  
EP 360387 B1 960508

APPLICATION (CC, No, Date): EP 89307079 890712;

PRIORITY (CC, No, Date): US 249049 880923

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30

CITED REFERENCES (EP A):

ANGEWANDTE INFORMATIK. APPLIED INFORMATICS. vol. 30, no. 1, January 1988,  
BRAUNSCHWEIG DE pages 18 - 26; J. R\HRLE ET AL: 'Verwaltung von  
Integrit{tsbedingungen in einem Datenw\rtterbuch'

TECHNOLOGY AND SCIENCE OF INFORMATICS. vol. 6, no. 3, June 1987, OXFORD  
GB pages 201 - 220; G. GARDARIN ET AL: 'Sabrina : a relational database  
system developed in a research environment'

COMMUNICATIONS OF THE ASSOCIATION FOR COMPUTING MACHINERY. vol. 28, no.  
8, August 1985, NEW YORK US pages 826 - 838; H. C. SMITH: 'DATABASE  
DESIGN : COMPOSING FULLY NORMALIZED TABLES FROM A RIGOROUS DEPENDENCY  
DIAGRAM';

ABSTRACT EP 360387 A2

An implementation of referential integrity in which descriptions of referential constraints are compiled into meta-data descriptions of the constraint rules and specifications. The meta-data descriptions of the constraints are stored in the form of objects called relationship descriptors. Each relationship descriptor contains a complete description of a referential constraint, either directly or by means of pointers to other objects such as record and index descriptors which contain information comprised in the constraint's specification. The relationship descriptors are linked into two types of chains by symbolic pointers. One type of relationship descriptor chain connects all relationship descriptors which have a common parent table. The other type of relationship descriptor chain connects relationship descriptors with common dependent tables. Both types of chains are anchored in respective fields in the tables' record descriptors. The use of meta-data descriptors facilitates both ready modification of the constraints, and speedy enforcement of the constraints by a single, shared procedure which

may be embedded in the data base manager. (see image in original document)

ABSTRACT WORD COUNT: 171

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 900328 A2 Published application (Alwith Search Report  
;A2without Search Report)  
Examination: 900711 A2 Date of filing of request for examination:  
900512  
Search Report: 921014 A3 Separate publication of the European or  
International search report  
Examination: 930714 A2 Date of despatch of first examination report:  
930528  
Grant: 960508 B1 Granted patent  
Oppn None: 970502 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	474
CLAIMS B	(English)	EPAB96	363
CLAIMS B	(German)	EPAB96	357
CLAIMS B	(French)	EPAB96	452
SPEC A	(English)	EPABF1	9217
SPEC B	(English)	EPAB96	9326
Total word count - document A			9691
Total word count - document B			10498
Total word count - documents A + B			20189

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION of FIG. 1 are related to each other and to themselves by six referential constraints, as listed in FIG. 2. Constraint R1 16 requires the **reporting** department ADMRDEPT in the DEPARTMENT **table** 10 to be a valid department number DEPTNO in the DEPARTMENT table. Thus, the **parent** table of **constraint** R1 16 is DEPARTMENT, the primary key is the DEPTNO column in the DEPARTMENT table, and the primary index is the DEPTNO index. The foreign key of constraint R1 16 is the ADMRDEPT column of the DEPARTMENT table 10, making DEPARTMENT the **dependent** table as well as the **parent**. Because its **parent** and **dependent** tables are the same, **constraint** R1 16 is a self-referencing constraint.

Constraint R2 18 requires each employee's work department WORKDEPT (foreign key) in the EMPLOYEE (dependent) table 12...

...states that the major project MAJPROJ of a project in the PROJECT table 14 must itself be a valid project number PROJNO in the PROJECT **table** 16. R6 is also a self-referencing constraint.

To **summarize** the terminology used in this description, the term "row" refers to the external view of a record as it exists within a table, while "record..."

...rows. A "dependent row" is a row of a "dependent table", and has a "foreign key value" that matches the primary key value of some **parent** row. A "self-referencing **constraint**" is a **constraint** defined within the same table -- that is, the foreign key and primary key are in the same table. Within a self-referencing table there may...

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19/5,K/11 (Item 11 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00367282

Method of performing operations in a relational data base management system.

Verfahren zur Durchführung von Operationen in einem relationalen Datenbankverwaltungssystem.

Methode d'exécution d'operations dans un systeme relationnel de gestion de base de donnees.

PATENT ASSIGNEE:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 351209 A2 900117 (Basic)

EP 351209 A3 921014

EP 351209 B1 940629

APPLICATION (CC, No, Date): EP 89307075 890712;

PRIORITY (CC, No, Date): US 219513 880715

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-015/40

CITED REFERENCES (EP A):

7TH INTERNATIONAL CONFERENCE ON VERY LARGE DATABASES 9 September 1981, CANNES, FRANCE pages 2 - 12; C. J. DATE: 'REFERENTIAL INTERGRITY'

4TH INTERNATIONAL CONFERENCE ON ENTITY-RELATIONSHIP APPROACH 28 October

1985, CHICAGO, USA pages 295 - 302; A. DOGAC ET AL: 'The Design and

Implementation of an Integrity Subsystem for the Relational DBMS RAP'

TECHNOLOGY AND SCIENCE OF INFORMATICS. vol. 6, no. 3, June 1987, OXFORD

GB pages 201 - 220; G. GARDARIN ET AL: 'Sabrina : a relational database system developed in a research environment';

ABSTRACT EP 351209 A2

A method is disclosed for enforcing referential constraints on a record-by-record basis, immediately before or after each record is manipulated and while the record is still accessed, significantly improving the system's performance. Each record is visited only once to do both the constraint checking and the manipulation (insert/update/delete). If the constraint checking fails, then the entire relational operation of which the record manipulation is a part is backed out. For insertions, each record is first inserted 30, and then constraints respecting the record are enforced 32,34. For updates, the record is updated 48 after constraints respecting the record's primary key are enforced 40,42, and before constraints respecting its foreign key(s) are enforced 44,46. Deletions are performed 52 before the constraints on the deleted record are enforced 54,56. Cascade deleted 58



are handled recursively 60. The method correctly processes cyclic constraints and self-referencing rows without special handling. (see image in original document)

ABSTRACT WORD COUNT: 155

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 900117 A2 Published application (A1with Search Report  
;A2without Search Report)  
Examination: 900711 A2 Date of filing of request for examination:  
900512  
Search Report: 921014 A3 Separate publication of the European or  
International search report  
Examination: 930623 A2 Date of despatch of first examination report:  
930507  
Grant: 940629 B1 Granted patent  
Oppn None: 950621 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPBBF1	470
CLAIMS B	(English)	EPBBF1	480
CLAIMS B	(German)	EPBBF1	450
CLAIMS B	(French)	EPBBF1	477
SPEC A	(English)	EPBBF1	10268
SPEC B	(English)	EPBBF1	10349
Total word count - document A			10738
Total word count - document B			11756
Total word count - documents A + B			22494

INTERNATIONAL PATENT CLASS: G06F-015/40

...SPECIFICATION of FIG. 1 are related to each other and to themselves by six referential constraints, as listed in FIG. 2. Constraint R1 16 requires the **reporting** department ADMRDEPT in the DEPARTMENT **table** 10 to be a valid department number DEPTNO in the DEPARTMENT table. Thus, the **parent** table of **constraint** R1 16 is DEPARTMENT, the primary key is the DEPTNO column in the DEPARTMENT table, and the primary index is the DEPTNO index. The foreign key of constraint R1 16 is the ADMRDEPT column of the DEPARTMENT table 10, making DEPARTMENT the **dependent** table as well as the **parent**. Because its **parent** and **dependent** tables are the same, **constraint** R1 16 is a self-referencing constraint.

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...states that the major project MAJPROJ of a project in the PROJECT table 14 must itself be a valid project number PROJNO in the PROJECT **table** 16. R6 is also a self-referencing constraint.

To **summarise** the terminology used in this description, the term "row" refers to the external view of a record as it exists within a table, while "record..."

...rows. A "dependent row" is a row of a "dependent table", and has a "foreign key value" that matches the primary key value of some **parent** row. A "self-referencing **constraint**" is a **constraint** defined within the same table -- that is, the foreign key references a primary key in the same table. Within a self-referencing table there may...

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Constraint R2 18 requires each employee's work department WORKDEPT

(foreign key) in the EMPLOYEE (dependent) table 12...

...states that the major project MAJPROJ of a project in the PROJECT table 14 must itself be a valid project number PROJNO in the PROJECT table 14. R6 is also a self-referencing constraint.

To **summarise** the terminology used in this description, the term "row" refers to the external view of a record as it exists within a table, while "record..."

...rows. A "dependent row" is a row of a "dependent table", and has a "foreign key value" that matches the primary key value of some **parent** row. A "self-referencing **constraint**" is a **constraint** defined within the same table -- that is, the foreign key references a primary key in the same table. Within a self-referencing table there may...

19/5,K/38 (Item 25 from file: 349)  
Image File 349:PCT FULLTEXT  
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004/3141 \*\*Image available\*\*

NON-UNIFORM MEMORY ACCESS (NUMA) DATA PROCESSING SYSTEM THAT SPECULATIVELY  
FORWARDS A READ REQUEST TO A REMOTE PROCESSING NODE  
SYSTEME DE TRAITEMENT DE DONNEES A ACCES MEMOIRE NON UNIFORME (NUMA)  
TRANSFERANT SPECULATIVEMENT UNE DEMANDE DE LECTURE A UN NOEUD DE  
TRAITEMENT ELOIGNE

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION,  
IBM UNITED KINGDOM LIMITED,

Inventor(s):

BAUMGARTNER Yoanna,  
DEAN Mark Edward,  
ELMAN Anna,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200036514 A1 20000622 (WO 0036514)  
Application: WO 99GB4204 19991210 (PCT/WO GB9904204)  
Priority Application: US 98211351 19981215

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK  
DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG  
KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF  
BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: **G06F-012/08**

Publication Language: English

Fulltext Availability:

Detailed Description  
Claims

Fulltext Word Count: 8194

English Abstract

A non-uniform memory access (NUMA) computer system includes at least a local processing node and a remote processing node that are each coupled to a node interconnect. The local processing node includes a local interconnect, a processor and a system memory coupled to the local interconnect, and a node controller interposed between the local interconnect and the node interconnect. In response to receipt of a read request from the local interconnect, the node controller speculatively transmits the read request to the remote processing node via the node interconnect. Thereafter, in response to receipt of a response to the read request from the remote processing node, the node controller handles the response in accordance with a resolution of the read request at the local processing node. For example, in one processing scenario, data contained in the response received from the remote processing node is discarded by the node controller if the read request received a Modified Intervention coherency response at the local processing node.

French Abstract

L'invention se rapporte a un systeme informatique a acces memoire non uniforme (NUMA) qui comporte au moins un noeud local de traitement et un noeud eloigne de traitement qui sont l'un et l'autre couples a une unite d'interconnexion de noeuds. Le noeud de traitement local comporte une unite d'interconnexion locale, une unite de traitement et un systeme de memoire couples a l'unite d'interconnexion locale, et un controleur de noeuds interpose entre l'unite d'interconnexion locale et l'unite d'interconnexion de noeuds. Lorsqu'il recoit une demande de lecture en provenance de l'unite d'interconnexion locale, le controleur de noeud transmet speculativement cette demande de lecture au noeud de traitement eloigne par l'intermediaire de l'unite d'interconnexion de noeuds. Puis lorsqu'il recoit une reponse a cette demande de lecture en provenance du noeud de traitement eloigne, le controleur de noeuds traite la reponse en accord avec une resolution de la demande de lecture au niveau du noeud de traitement local. Par exemple, dans un cas de figure, les donnees contenues dans la reponse recue de la part du noeud de traitement eloigne sont rejetees par le controleur de noeuds si la demande de lecture a recu une reponse de coherence d'intervention modifiee au niveau du noeud de traitement local.

Main International Patent Class: G06F-012/08

Fulltext Availability:

Detailed Description

Detailed Description

... system memory  
addresses of data (e.g., cache lines) checked out to caches in remote nodes for which the local processing node is the home **node**. The address indication for each cache line is stored in **association** with an identifier of each remote processing **node** having a copy of the cache line and the coherency status of the cache line at each such remote processing node.

Possible coherency states for entries in coherency directory 50 are summarized in **Table VI**.

**TABLE VI**

Coherence directory state	Possible state(s) in local cache	Possible state(s) in remote cache	Possible meaning
Modified	I	M, E, or I	Cache line...

19/5,K/42 (Item 29 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00484851

INTEGRATED PROXY INTERFACE FOR WEB BASED DATA MANAGEMENT REPORTS

INTERFACE MANDATAIRE INTEGREE POUR RAPPORTS DE GESTION DE DONNEES SUR LE WEB

Patent Applicant/Assignee:

COMBAR Curtis T,  
DEVINE Carol Y,  
FLENTJE William P,  
PFISTER Robert A,

Inventor(s):

COMBAR Curtis T,  
DEVINE Carol Y,  
FLENTJE William P,  
PFISTER Robert A,

Parent and Priority Information (Country, Number, Date):

Patent: WO 9916203 A2 19990401

Application: WO 98US20180 19980925 (PCT/WO US9820180)

Priority Application: US 9760655 19970926

Designated States: AU BR CA JP MX SG AT BE CH CY DE DK ES FI FR GB GR IE IT  
LU MC NL PT SE

Main International Patent Class: G06F-015/16

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 27960

#### English Abstract

An Intranet/Internet/Web-based data management tool (17) that provides a common GUI (207) enabling the requesting, customizing, scheduling and viewing of various types of unpriced call detail data reports pertaining to a customer's telecommunications network traffic (22). The Intranet/Internet/Web-based (17) reporting system application comprises a novel Web-based, client-server application that enables customers to access their own relevant data information timely, rapidly and accurately through a client GUI. A periodic acquisition of data from the customer's telecommunications network (22) at a user-specified frequency and configured to meet real-time traffic reporting requirements (34). The system infrastructure provided enables secure initiation, acquisition, and presentation of unpriced call detail and statistical data reports to customers.

#### French Abstract

Cette invention se rapporte a un outil de gestion de donnees utilisant l'Intranet/l'Internet/le Web pour fournir une interface utilisateur graphique commune permettant la demande, la personnalisation, l'ordonnancement et la visualisation de divers types de rapports de donnees detailles d'appels non factures relatifs au trafic d'un utilisateur donne sur un reseau de telecommunications. Cet outil de systeme de rapports utilisant l'Intranet/l'Internet/le Web comprend une nouvelle application client-serveur utilisant le Web pour permettre aux utilisateurs d'accéder a leurs propres informations pertinentes en temps opportun, rapidement et avec precision par l'intermediaire d'une interface utilisateur graphique client. Un serveur de visualisation de trafic est prevu pour permettre l'acquisition periodique de donnees depuis le reseau de telecommunications de l'utilisateur a une frequence specifiee par lui, ce serveur etant en outre configure pour repondre a des exigences de rapports de trafic en temps reel. L'infrastructure de systeme proposee permet l'initialisation, l'acquisition et la presentation securisees de rapports de donnees statistiques et detailles d'appels non factures aux utilisateurs.

Main International Patent Class: G06F-015/16

Fulltext Availability:

Detailed Description

#### Detailed Description

... message back to the client.

To retrieve details of the standard report template, the GRTD request message request is sent having content shown in the **table** in Appendix A. When specified, the **Report ID** field indicates an existing report that a user may wish to edit.

The SRTD response generated by the RM server is formatted in metadata as follows.

```
< Report Template ID=ID#,  
  NODE1 =< node level1, label value1, assigned unique  
screen identification1, >,  
  NODE2=<node level2, label value2, assigned unique  
screen identification2, <control ID2.1, field  
value2.1, data location2.1...back to the client.
```

To retrieve the details of a specific user's report, the GURD message is sent having data as contained in the **table** shown in Appendix A.

Specifically, when the user selects a **report** from the Inventory List on the Report Requestor, a Communication Manager object is invoked to communicate with the RM server in order to obtain aThe parser organizes the data into a series of **nodes** which are utilized to create the **report** builder tree on the report requestor customization screen. Later this data will be extracted from the **node** and used to construct the screen **related** to the **node**. The **Report** Manager server creates the MCIDispatcher object which contains the business logic for handling metadata messages at the back-end and utilizes the services of the...

19/5,K/48 (Item 35 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00376923

**STRUCTURED FOCUSED HYPERTEXT DATA STRUCTURE**

**STRUCTURE DE DONNEES HYPERTEXTE ARTICULEE SUR LA STRUCTURATION**

Patent Applicant/Assignee:

HYPERMED LTD,  
OREN Avraham,  
OLCHA Lev,  
KOWALSKI Nahum,  
MARGULYAN Rita,

Inventor(s):

OREN Avraham,  
OLCHA Lev,  
KOWALSKI Nahum,  
MARGULYAN Rita,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9717666 A2 19970515  
Application: WO 96IL131 19961023 (PCT/WO IL9600131)  
Priority Application: US 95551929 19951023

Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB

IE HU IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL  
PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN KE LS MW SD SZ UG AM  
AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT  
SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class: **G06F-017/30**

International Patent Class: **G06F-17:21**

Publication Language: English

Fulltext Availability:

Detailed Description  
Claims

Fulltext Word Count: 263802

**English Abstract**

A hypertexted data structure (3/16) stored on a computer readable memory device and organized in a hierarchy of at least two levels, the data structure comprising: a plurality of data units (18-20) positioned at different levels in the hierarchy each containing at least some textual information (23) and a plurality of hypertext links (1) each linking at least part of the textual information in a given source data unit to a target data unit; wherein at least one of the hypertext links (1) is linked to at least one hypertext node (34) which contains information relating at least to both the given source data unit and the target data unit from which the relative positions in the hierarchy of the given source and target data units linked by the hypertext link may be determined.

**French Abstract**

La presente invention concerne une structure de donnees en format hypertexte (3/16) stockees dans une memoire lisible par ordinateur et

organisee selon une hierarchie comportant au moins deux niveaux. Cette structure de donnees est constituee, d'une part de plusieurs unites de donnees (18-20) se placant a differents niveaux de la hierarchie, chacune de ces unites de donnees contenant au moins quelques donnees textuelles (23), et d'autre part, d'un jeu de liens hypertexte (1), chacun de ces liens reliant au moins une partie de l'information textuelle d'une unite de donnees origine specifique a une unite de donnees cible. L'un au moins des liens hypertexte (1) est relie a l'un au moins des noeuds hypertexte (34) qui contient des donnees se rapportant au moins a la fois a l'unite de donnees origine specifique et a l'unite de donnees cible a partir de laquelle il est possible de determiner des positions relatives dans la hierarchie. Ces positions relatives sont celles des unites de donnees origine et cible reliees par le lien hypertexte.

Main International Patent Class: G06F-017/30

International Patent Class: G06F-17:21

Fulltext Availability:

Detailed Description

Detailed Description

... of which is related in that celiac disease is one of the many causes of short stature, a reference page is made which discusses the **relation** between these two topics. The reference page is a **child** to both chapters, except that a different title link is assigned depending on whether is it entered via hypertext I g from the chapter on...

...the chapter on Short stature (Le., "Short Stature - Celiac disease").

For a link between a chapter and smaller chapters within the chapter, a top or **summary** page is designed for the subchapter which contains many hypertext links and which is the target of many hypertext links from the chapter.

```
The possibility...Sub VefifyDefaultChapterTable
for a particular screen Dim t As table, dp As table, d As
Dynaset, q As QueryDef
Dim q As QueryDef, t As table , d As Dim CheckChapter As Long, Counter
Dvnaset As Long, Interval As Long, p As Long
Dim ChapterID As Long,
ChapterName As String In order...Loop
Set q = I
dbHyperText.OpenQueryDef("Get The 'then we have reached the end of the
Parents") recursion
q! [The Child Chapter ID] 'delete the child
ChildChapID I
Set AllParents = q.CreateDynaset(' Set q
get all the parent chapters dbHyperText.OpenQuervDef("Delete
q.Close Links from a child")
138
SUBSTITUTE SHEET (RULE 26)
q! [Delete links from the child] q.Execute
ChildChapID q...create the record and
' first get a start point for new then add the text
paragraphs t.MovePrevious
sSQL = "Select Max([Paragraph t.Seek "=", NewParagraphID
table ].[Paragraph ID]) as [m] from t.Edit
[Paragraph table ];" I
Set d = ConvertToNodeInformation
dbHyperText.CreateDynaset(sSQL) NewParagraphID, Headers(i),
LastParagraphID = d("ni") FinaffleaderText, "H"
d.Close t("Header text")
FinalHeaderText
now start adding entries...set the count value for the PRIOR(4, MACHSAN)
= 2: PRIOR(4,
number of paragraph types KALAT) = 2
PRIOR(5, Op) = ORSymbol.
```

```

Dim d As Table PRIOR(5, MACHSAN) = 2: PRIOR(5,
Set d = KALAT) = 2
dbHyperText.OpenTable("Paragraph PRIOR(8, Op) = UnionSymbol.

types") PRIOR(8, MACHSAN) = 2: PRIOR(8,
I...Leader="
q.Close Else
Leader
End If
If d.RecordCount > 0 Then I note that by definition, each of
d.MoveFirst these chapters is a parent
270
SUBSTITUTE SHEET (RULE 26)
FormattedChapterName Else
Print$(ChapterIndentsList(ChapterNu Leader
Print " IC, " ") & Leader & End If
ChapterNameList(ChapterNumber) I note that by definition, each of...

...set time format'
and'status time format'commands
Global Const
MCI -FOR-MAT-MILLISECONDS
272
SUBSTITUTE SHEET (RULE 26)
:
ADMIN
PATENT
FROMSET
2
CLEAN. MDB
Table : 1 DB In Use
Properties
Date Created: 11/12/94 20:08:19 Def. Updatable Yes
Last Updated: 11/12/94 20:08:34 Record...

```

24/5,K/3 (Item 3 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01583922

X.500 System and methods providing data tolerance

X.500-Systeme und entsprechende Methoden mit Bereitstellung einer  
Datentoleranz

Systeme et procede de X.500 fournissant tolerance de donnees

PATENT ASSIGNEE:

Computer Associates Think, Inc., (2947530), One Computer Associates Plaza  
, Islandia, New York 11749, (US), (Applicant designated States: all)

INVENTOR:

Harvey, Richard Hans, 4 Odette Court, Ringwood, VIC 3134, (AU)

LEGAL REPRESENTATIVE:

Dunlop, Hugh Christopher et al (59552), R G C Jenkins &Co., 26 Caxton  
Street, London SW1H 0RJ, (GB)

PATENT (CC, No, Kind, Date): EP 1313039 A2 030521 (Basic)

APPLICATION (CC, No, Date): EP 2003002798 950830;

PRIORITY (CC, No, Date): AU 94PM7842 940901; AU 94PM9586 941121

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;  
NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 777883 (EP 95930331)

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 1313039 A2

The present invention addresses the problem of implementing X.500 using  
an SQL product. The present application discloses an application of X.500  
to a relational database, a database design and use of the database to  
perform X.500 services. Particularly, the disclosure relates to  
implementation using an RDBMS (Relational DataBase Management System).  
The invention relates to data tolerance in the database and to providing  
a ready ability to expand the database without being constrained by type  
of data.

ABSTRACT WORD COUNT: 77

NOTE:

Figure number on first page: 2A

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030521 A2 Published application without search report

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200321	914
SPEC A	(English)	200321	13148
Total word count - document A			14062
Total word count - document B			0
Total word count - documents A +B			14062

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION al, 1991, ISBN 0-13-630054-5, in which at paragraph 17.3.8  
it is clearly stated that "putting all entities in the one **table** is not  
a good approach to **relational** database design".

#### SUMMARY OF INVENTIONS

An object of the present inventions is to address the problem of  
implementing X.500 in a **RDBMS** which supports SQL or any other  
**relational** language.

The present application seeks to disclose a number of inventions  
related to the implementation of X.500 services in a **RDBMS** which  
supports SQL or any other **relational** language. X.500 services can be  
invoked via a number of protocols, such as X.500 and LDAP.

The scope of the present invention is...



01450509

**Collision avoidance in Bidirectional database replication**

**Vermeidung von Kollisionen in bidirektionalen Datenbankreplikationen**

**Procede d'anti-collision pour la reproduction bidirectionnelle d'une base de donnees**

PATENT ASSIGNEE:

ITI, Inc., (3196750), 16 Industrial Boulevard, Paoli, PA 19301-1609, (US)  
, (Applicant designated States: all)

INVENTOR:

Holenstein, Bruce D., 2351 North Ridley Creek Road, Media, PA 19063, (US)  
Holenstein, Paul J., 9 Paul Nelms Drive, Downingtown, PA 19335, (US)  
Strickler, Gary E., 1511 Franklin Drive, Pottstown, PA 19465, (US)

LEGAL REPRESENTATIVE:

Brommer, Hans Joachim, Dr.-Ing. et al (2451), Lemcke, Brommer & Partner  
Patentanwalte Postfach 11 08 47, 76058 Karlsruhe, (DE)

PATENT (CC, No, Kind, Date): EP 1241592 A2 020918 (Basic)

APPLICATION (CC, No, Date): EP 2002005562 020312;

PRIORITY (CC, No, Date): US 810674 010316

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 1241592 A2

A bidirectional database replication system includes a plurality of nodes. Each transaction at an originating node is paused prior to a commit operation. Ready to commit tokens are sent to the other nodes in the system to determine if the other nodes are prepared for the commit operation for the paused transaction. If all of the ready to commit tokens properly return to the originating node from the other nodes, thereby indicating that the other nodes are prepared for the commit operation, then the transaction is committed. For lengthy transactions, ready to sync tokens are assigned at one or more predesignated intermediate points in the transaction, and propagate throughout the system in a similar manner. The transaction continues to execute as long as all ready to sync tokens properly return to the originating node. The pause-before-commit and sync point schemes are used to avoid collisions at any of the nodes.

ABSTRACT WORD COUNT: 151

NOTE:

Figure number on first page: 2A

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020918 A2 Published application without search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200238	3112
SPEC A	(English)	200238	6792
Total word count - document A			9904
Total word count - document B			0
Total word count - documents A + B			9904

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION in the table, because a smaller portion of the data is locked by each user.

The scope of the present invention is not limited to **relational** database management systems ( **RDBMS** ) having tables, rows and columns, but also includes corresponding elements in traditional, **relational** and conceptual data management systems, **summarized** as follows:

**RDBMS** : **table** , row, column

Traditional: file, record, field

**Relational** : relation, tuple, attribute

Conceptual: entity set, entity, attribute

The present invention may also be implemented using data locking schemes other than direct row or table...

24/5,K/8 (Item 8 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01445795

Information storage and retrieval system for storing and retrieving the visual form of information from an application in a database  
System zum Abspeichern und Wiederauffinden der visuellen Form von Information aus einer Anwendung in einer Datenbank  
Systeme de stockage et de recuperation dans une base de donnees d'informations sous forme visuelle venant d'une application

PATENT ASSIGNEE:

NuGenesis Technologies Corporation, (3383191), 1900 West Park Drive, Westborough, MA 01581, (US), (Applicant designated States: all)

INVENTOR:

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Rush, Fitzhugh Gordon, III, 33 Rolling Meadow Drive, Holliston, Massachusetts 01746, (US)

Daylates, Edward Lawrence, 195 Belmont Street, Apt. 2, Worcester, Massachusetts 06019, (US)

Gregory, Carey Edwin, 23 Country Lane, Collinsville, Connecticut 06022, (US)

Dos Santos, Carl, 133 Robbins Road, Rindge, NH 03461, (US)

Kaulgud, Milind M., 63 Kendall Road, Boxborough, Massachusetts 01719, (US)

LEGAL REPRESENTATIVE:

Freischem, Stephan, Dipl.-Ing. (83231), Patentanwalte Freischem An Gross St. Martin 2, 50667 Koln, (DE)

PATENT (CC, No, Kind, Date): EP 1235162 A2 020828 (Basic)

APPLICATION (CC, No, Date): EP 2002012251 990128;

PRIORITY (CC, No, Date): US 73701 P 980204; US 213019 981216

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; IE; IT; LI; LU; NL; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 1051685 (EP 99905502)

INTERNATIONAL PATENT CLASS: G06F-017/30 ; G06F-009/44

ABSTRACT EP 1235162 A2

The visual form of data from a computer program is received and stored in a database. The visual form of the data may be received, for example, in response to a print operation by the computer program or by some other operation such as a cut and paste sequence of operations or by sending the data to another application. The visual form of the data may be stored as a vector image that permits scalability. The visual form of the data may be stored with other identifying information or tags in the database to facilitate searching of the database. The data in the database may be encoded in a manner that ensures data integrity and that permits detection of when data has been compromised. In one embodiment, a service layer application is provided to control access to the database by performing encoding and decoding of the data in the database. The service layer may have an application programming interface that permits many applications to have access to the database. Another application may be provided for accessing the visual form of the data from the database and for providing this data to another computer program. Such an application permits a user to create compound documents from data in the database using the other computer program.

ABSTRACT WORD COUNT: 215

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020828 A2 Published application without search report

Change: 021120 A2 Inventor information changed: 20020927

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200235	2224
SPEC A	(English)	200235	12628
Total word count - document A			14852
Total word count - document B			0
Total word count - documents A + B			14852

INTERNATIONAL PATENT CLASS: G06F-017/30 ...

... G06F-009/44

...SPECIFICATION name of a group to which the user belongs.

Figs. 3-6 illustrate an example database schema for storing the reports and tags in a **relational** database. It should be understood that any other database schema may be used and that the following example is merely illustrative. The variable types are...

...be used and that these variable types would be defined according to the specifications and operation of the other databases.

Fig. 3 illustrates a main **table** 300 that contains records with the tag information for each **report**. In this **table**, each **report** is printed into the database and added as a record, with each record being assigned a unique identifier, LTId. The LTId may be generated by...

24/5,K/14 (Item 14 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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G06F09217

Data manipulation in systems displaying a visual representation of a physical environment

Datenverarbeitung in Systemen, die eine visuelle Darstellung einer physischen Umgebung zeigen

Traitement de donnees dans des systemes qui affichent une representation visuelle d'un milieu physique

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (Proprietor designated states: all)

INVENTOR:

Merrick, Roland Albert, 8 St. James Close, Harvington, Nr. Evesham,, Worcestershire WR11 5PZ, (GB)

Richards, Justin James Campling, Mill House, 2 Aspley Court, Hill Farm, Hatton, Warwick CV35 7EH, (GB)

LEGAL REPRESENTATIVE:

Jennings, Michael John (80331), IBM United Kingdom Limited, Intellectual Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 784259 A2 970716 (Basic)

EP 784259 A3 990217

EP 784259 B1 030312

APPLICATION (CC, No, Date): EP 96309404 961223;

PRIORITY (CC, No, Date): GB 9600685 960112

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-003/033 ; G06F-017/30

CITED PATENTS (EP B): WO 89/11696 A; US 5347628 A

CITED REFERENCES (EP B):

ROWE L A ET AL: "A VISUAL SHELL INTERFACE TO A DATABASE" SOFTWARE PRACTICE & EXPERIENCE, vol. 19, no. 6, June 1989, pages 515-528,   
 NEW 9053520

LEWIS K ET AL: "ICONICBROWSER: AN ICONIC RETRIEVAL SYSTEM FOR OBJECT-ORIENTED DATABASES" PROCEEDINGS IEEE WORKSHOP ON VISUAL LANGUAGES, 4 October 1989, pages 130-137, XP000390990

"OBJECT BASED ARCHITECTURE FOR MULTIMEDIA DATA SOURCES" IBM TECHNICAL DISCLOSURE BULLETIN, vol. 37, no. 11, November 1994, page 521/522   
 XP000487324;

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):  
 Examination: 010912 A2 Date of dispatch of the first examination  
 report: 20010730  
 Application: 970716 A2 Published application (Alwith Search Report  
 ;A2without Search Report)  
 Grant: 030312 B1 Granted patent  
 Search Report: 990217 A3 Separate publication of the European or  
 International search report  
 Change: 990224 A2 Obligatory supplementary classification  
 (change)  
 Examination: 990929 A2 Date of request for examination: 19990802  
 LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	559
CLAIMS B	(English)	200311	754
CLAIMS B	(German)	200311	727
CLAIMS B	(French)	200311	902
SPEC A	(English)	EPAB97	4369
SPEC B	(English)	200311	4584
Total word count - document A			4929
Total word count - document B			6967
Total word count - documents A + B			11896

INTERNATIONAL PATENT CLASS: G06F-003/033 ...

... G06F-017/30

...SPECIFICATION editor software which can interpret the text and control information embedded within it. Only the user knows how best to present the data - as a **table** , a chart, a **summary report** , a logic diagram.

In certain cases, the data and the output viewer object which presents it will be tightly-coupled. There will be a one the case in many situations, for example a traditional **relational** database or the vast amounts of 'raw' data currently stored in this format which is separate from the viewer mechanism.

It is hence an object...

...SPECIFICATION editor software which can interpret the text and control information embedded within it. Only the user knows how best to present the data - as a **table** , a chart, a **summary report** , a logic diagram.

In certain cases, the data and the output viewer object which presents it will be tightly-coupled. There will be a one...

...display engine; the data will be intrinsic to the output viewer object. However, this is not the case in many situations, for example a traditional **relational** database or the vast amounts of 'raw' data currently stored in this format which is separate from the viewer mechanism.

It is hence an object...

24/5,K/15 (Item 15 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
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00675866

Information catalog system with object-dependent functionality  
 Informationsarchivierungssystem mit objektabhängiger Funktionalität  
 Systeme d'archivage d'informations avec une fonctionnalité dépendant de l'objet

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,  
 Armonk, N.Y. 10504, (US), (Proprietor designated states: all)

INVENTOR:

Harper, Lloyd, 7144 Via Romera, San Jose, California 95139, (US)  
 Labrie, Jacques, 1415 Hervey Lane, San Jose, California 95125, (US)

LEGAL REPRESENTATIVE:

Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual  
Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)  
PATENT (CC, No, Kind, Date): EP 647909 A1 950412 (Basic)  
EP 647909 B1 030416

APPLICATION (CC, No, Date): EP 94306033 940816;

PRIORITY (CC, No, Date): US 134355 931008

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30

CITED PATENTS (EP B): EP 304071 A; EP 472070 A; EP 585813 A

CITED REFERENCES (EP B):

RESEARCH DISCLOSURE, RD347015, 10 March 1993, HAVANT GB ANONYMOUS

'Meta-object for samples in object-oriented sample base system'

GOERS J.; HEUER A.: 'Definition and application of metaclasses in an  
object-oriented database model' DATA ENGINEERING 19 April 1993, IEEE  
CONFERENCE, pages 373 - 380

ORDILLE J.J.; MILLER P.B.: 'Distributed active catalogs and meta-data  
caching in descriptive name services' DISTRIBUTED COMPUTING SYSTEMS 25  
May 1993, IEEE CONFERENCE PROCEEDINGS, pages 120 - 129

BHASKER B.; VAN STEENBERG M.E.; JACOBS B.E.: 'Architecture and  
implementation of an on-line data archive and distribution system' MASS  
STORAGE SYSTEMS 26 April 1993, IEEE SYMPOSIUM, pages 177 - 182

ORR D.B. ET AL.: 'Dynamic program monitoring and transformation using the  
OMOS object server' SYSTEM SCIENCES vol. 1, 05 January 1993, IEEE  
CONFERENCES, pages 232 - 241;

ABSTRACT EP 647909 A1

An information catalog database system (2) is disclosed for cataloging  
information stored in one or more data storage resources (12-24) under  
the control of one or more data processing nodes (4). The catalog system  
(2) includes a cataloging service facility (60) for performing one or  
more information cataloging functions to organize and present a graphical  
view of the information stored in the data storage resource (12-24). The  
information cataloging functions are categorized into a plurality of  
defined function categories. An object generation facility generates one  
or more meta-data objects corresponding to units of information stored in  
the data storage resource (12-24). The meta-data objects contain  
attributes defining characteristics of the information units to which  
they correspond and the meta-data objects are assigned to one or more of  
the function categories to define the information cataloging functions  
which may be performed on the meta-data objects. A user interface is  
provided for executing the information cataloging functions on the  
meta-data objects in response to user input. (see image in original  
document)

ABSTRACT WORD COUNT: 170

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Grant: 030416 B1 Granted patent

Application: 950412 A1 Published application (A1with Search Report  
;A2without Search Report)

Examination: 951004 A1 Date of filing of request for examination:  
950810

Examination: 981118 A1 Date of despatch of first examination report:  
981006

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	383
CLAIMS B	(English)	200316	492
CLAIMS B	(German)	200316	477
CLAIMS B	(French)	200316	647
SPEC A	(English)	EPAB95	5075
SPEC B	(English)	200316	5126
Total word count - document A			5458
Total word count - document B			6742
Total word count - documents A + B			12200

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION the Business Group object type is to provide a generic container for organizing other grouping and elemental category object types such as tables, columns, queries, **reports** and images. The purpose of the **Table** object type is to describe the relevant properties of an SQL **relational** table or a client/server file.

In the example of Fig. 2, the Elemental category 42 contains "Column," "Data Analysis," "Completed Report" and "Image" object...

...SPECIFICATION the Business Group object type is to provide a generic container for organizing other grouping and elemental category object types such as tables, columns, queries, **reports** and images. The purpose of the **Table** object type is to describe the relevant properties of an SQL **relational** table or a client/server file.

In the example of Fig. 2, the Elemental category 42 contains "Column," "Data Analysis," "Completed Report" and "Image" object...

24/5,K/17 (Item 17 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00500504

METHOD AND APPARATUS FOR GRAPHICAL INTERROGATION OF A DATABASE

VERFAHREN UND GERAT ZUR GRAPHISCHEN BEFRAGUNG EINER DATENBANK

PROCEDE ET APPAREIL POUR L'INTERROGATION GRAPHIQUE D'UNE BASE DE DONNEES

PATENT ASSIGNEE:

Hewlett-Packard Company, (206031), Mail Stop 20 B-O, 3000 Hanover Street,  
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DE;FR;GB;IT;NL)

INVENTOR:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 466878 A1 920122 (Basic)

EP 466878 B1 960925

WO 9112580 910822

APPLICATION (CC, No, Date): EP 91903278 910208; WO 91GB200 910208

PRIORITY (CC, No, Date): GB 9002876 900208; GB 9002874 900208; GB 9100082  
910103

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: G06F-017/30

FILED PATENTS (WO A): US 2869764 A ; US 2889086 A ; US 2994461 A ; US

3048 A ; US 3758007 A ; US 4171757 A

REFERENCES (WO A):

ACM Transactions on Database Systems, vol 14, no. 4, December 1989, ACM,  
(New York, US), G. \zsoyoglu et al.: "Query processing techniques in  
the summary-table-by-example database query language", pages 526-573  
IEEE Computer Graphics and Applications vol. 14, no. 5, May 1981, IEEE,  
M.M. Zloof: "QBE/OBE: A language for office and business automation",  
pages 13-21

Software Practice & Experience, vol. 19, no. 6, June 1989, John Wiley &  
Sons, Ltd., (Chichester, Sussex, GB), L.A. Rowe et al.: " A visual  
shell interface to a database", pages 515-528

IEEE Computer Software and Applications Conference, Compsac '87, 7-9  
October 1987, Tokyo, JP, C.T. Wu: GLAD: Graphics language for database"

pages 164-170;

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Lapse: 030212 B1 Date of lapse of European Patent in a  
contracting state (Country, date): FR  
19970221, IT 19960925, NL 19960925,  
Application: 920122 A1 Published application (A1with Search Report  
;A2without Search Report)  
Examination: 920122 A1 Date of filing of request for examination:  
911025  
Change: 930707 A1 Representative (change)  
Change: 940223 A1 Representative (change)  
Examination: 960417 A1 Date of despatch of first examination report:  
960301  
Grant: 960925 B1 Granted patent  
Lapse: 970820 B1 Date of lapse of the European patent in a  
Contracting State: FR 970221  
Oppn None: 970917 B1 No opposition filed  
Lapse: 991020 B1 Date of lapse of European Patent in a  
contracting state (Country, date): FR  
19970221, IT 19960925,

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB96	828
CLAIMS B	(German)	EPAB96	817
CLAIMS B	(French)	EPAB96	898
SPEC B	(English)	EPAB96	6008
Total word count - document A			0
Total word count - document B			8551
Total word count - documents A + B			8551

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION the National Computer Conference 1975 by M.M. Zloof. Here queries are formulated by filling in a table corresponding to a given relation in a **relational** database. Fixed and exemplary elements are distinguished in the table and a further output table is derived which displays the intersection or the union of...

...and secondly the formulation of the query requires expertise in logic. Another graphical interrogation technique is described in the paper "Query Processing Techniques in the **Summary - Table** -by-Example Database Query Language", ACM Transactions on Database Systems 1989 by G. Ozsoyoglu. Here the attributes of the queries are determined as headings of...

24/5,K/43 (Item 26 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00537536 \*\*Image available\*\*

DATA RETRIEVAL METHOD AND APPARATUS WITH MULTIPLE SOURCE CAPABILITY  
PROCEDE D'EXTRACTION DE DONNEES DEPUIS PLUSIEURS SOURCES ET APPAREIL  
CORRESPONDANT

Patent Applicant/Assignee:

TIMELINE INC,  
KOUCHI David B,  
YARNALL David,  
BABCOCK Donald K,

Inventor(s):

KOUCHI David B,  
YARNALL David,  
BABCOCK Donald K,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200000909 A1 20000106 (WO 0000909)

Application: WO 99US12723 19990607 (PCT/WO US9912723)

Priority Application: US 98106538 19980629

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT  
UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD  
RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF  
CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 14931

#### English Abstract

Generation of output or reports contained in a data source which may be any of two or more types of source data, in a standardized or uniform manner is provided. A plurality of drivers (804) are provided specific to different types of source data which include programming for identifying structural or other characteristics of the various data sources, e.g. for use in defining a new database. Preferably the new database is configured to permit highly flexible and/or rapid output or reporting or is otherwise optimized for reporting purposes. In one embodiment, the present invention includes conversion of one or more data sources into one or more uniform databases (812), preferably generating one or more key categories for organizing the data, optionally generating category groupings or rollups and additional data or optional references.

#### French Abstract

L'invention porte sur la generation de sorties ou d'etats se rapportant a une information contenue dans une source de donnees de plusieurs types, et ce, de facon normalisee ou uniforme. L'invention porte sur une pluralite de pilotes (804) specifiques des differents types de sources de donnees, lesquels pilotes comportent une programmation permettant d'identifier des caracteristiques principalement structurelles, notamment pour la definition d'un nouveau profil de base de donnees. La nouvelle base de donnees est de preference configuree de facon a permettre un sortie ou des productions d'etats extremement flexibles et/ou rapides, voire optimisees. Selon une realisation, cette invention comprend la conversion d'une ou plusieurs sources de donnees en une ou plusieurs bases de donnees (812) uniformes, de preference par generation d'une ou plusieurs categories de cles d'indexation de donnees, et eventuellement par generation de regroupements ou cumuls par categories, avec eventuellement adjonction de donnees ou de references.

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... or schemes. For example, some database packages are organized in a hierarchical manner (e.g., in a tree-fashion), while others may be organized as **relational** databases (modeled on two-dimensional tables of rows and columns).

Furthermore, information may be stored in forms that are not, strictly speaking, database forms...

... spreadsheet, and the like. Additionally, different types of data sources may store the data in various formats. For example, some database products store each **table**, each **reporting** format and each query as a separate file on a storage device such as a hard disk, while other software may store all tables, relationships... of database permit a user to design a report (either for display or printing) and, in some case, to store information defining such a **report**, e.g. for repeated use. Thus, another **table** or set of tables (not shown) may be stored as part of or in connection with a **relational** database to preserve information regarding such reports.



The information and structure represented in Figs. 4A through 4F may be stored in a number of different...

24/5,K/44 (Item 27 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00519410 \*\*Image available\*\*

**PROCESSING PRECOMPUTED VIEWS**  
**TRAITEMENT DE VUES PRECALCULEES**

Patent Applicant/Assignee:

INFORMIX SOFTWARE INC,

Inventor(s):

COLBY Latha S,  
COLE Richard L,  
HASLAM Edward P,  
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MCKENNA William J,  
WILHITE David G Jr,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9950762 A1 19991007

Application: WO 99US6297 19990325 (PCT/WO US9906297)

Priority Application: US 9879679 19980327; US 9879671 19980327; US  
9879670 19980327; US 9849784 19980327

Designated States: AU BR CA JP MX AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE

Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 14952

**English Abstract**

A user database query (90) on precomputation strategy effectiveness is responded to by defining, based upon user database query history, an analysis space consisting of a subset of all possible views for the database (104), and by characterizing the views in the analysis space. A structure is imposed on an analysis space consisting of a subset of all possible views for the database based upon the capabilities of a query rewriting facility (92), and the views in the analysis space is characterized. A cost formula is applied to the analysis space based upon a user-defined subset of the data contained in the database. The analysis space includes a candidate view composed of a combination of two or more constituent views is defined. A user query on the database is analyzed, and a candidate view based upon the user query is generated. A system for answering user queries on a database stored on a server includes a query processing system (18) integrated into the server and configured to respond to user queries, and a query processing system integrated into the server and configured to process precomputed results (38) of user queries on the database.

**French Abstract**

Une reponse est fournie a une demande d'utilisateur (90) sur une base donnees, relative a l'efficacite d'une strategie de precalcul, par la definition, en fonction de l'historique des demandes sur ladite base de donnees, d'un espace d'analyse consistant en un sous-ensemble de toutes les vues possibles pour la base de donnees (104), et par la caracterisation des vues dans l'espace d'analyse. Une structure est imposee sur l'espace d'analyse consistant en un sous-ensemble de toutes les vues possibles pour la base de donnees, en fonction des capacites d'une installation de reecriture de demande (92), et les vues de l'espace d'analyse sont caracterisees. Une formule de cout est appliquee a l'espace d'analyse en fonction d'un sous-ensemble defini par l'utilisateur des donnees contenues dans la base de donnees. L'espace

d'analyse comprenant une vue candidate composee d'une combinaison d'au moins deux vues constituantes est defini. Une demande d'utilisateur sur la base de donnees est analysee, et une vue candidate basee sur la demande d'utilisateur est generee. Un systeme pour repondre aux demandes d'utilisateur sur une base de donnees memorisee sur un serveur, comporte un systeme de traitement de demandes integre au serveur et configure pour repondre aux demandes d'utilisateur, et un systeme de traitement de demandes integre (18) au serveur et configure pour traiter les resultats precalcules des demandes d'utilisateur sur la base de donnees.

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... the same value for the x column. A functional dependency may be explicitly declared by a 1 5 user, such as the database administrator.

Further, **relational** database models provide for an aggregation query, which is a query that requires the summarization or consolidation of rows in database tables, typically using a set function, such as SUM or COUNT, and an optional GROUP BY clause. An aggregate **table** is typically a **table** that **summarizes** or consolidates

24/5,K/49 (Item 32 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00404001 \*\*Image available\*\*

RELATIONAL DATABASE COMPILED/STORED ON A MEMORY STRUCTURE

BASE DE DONNEES RELATIONNELLES COMPILEE / STOCKEE SUR UNE STRUCTURE DE MEMORISATION

Parent Applicant/Assignee:

UNIVERSITAIRE ZIEKENHUIZEN LEUVEN,  
VAN DEN BOSCH Bart,

Inventor(s):

VAN DEN BOSCH Bart,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9744745 A1 19971127

Application: WO 97BE62 19970521 (PCT/WO BE9700062)

Priority Application: AT 696870066 19960522; US 9618140 19960522

Designated States: AL AU BA BB BG BR CA CN CU CZ DE EE GE HU IL IS JP KP KR

LC LK LR LT LV MG MK MN MX NO NZ PL RO SG SI SK TR TT UA US UZ VN YU GH

KE LS MW SD SZ UG AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB

GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 26204

English Abstract

The present invention is first related to a relational database compiled/stored on a computer environment and adapted for access by application programs executing a query within said database and compiled/stored on said computer environment comprising: a first set of tables with first columns and tuples containing first data; a second set of tables with second columns and tuples containing second data; each of said second data being a redundant representation of at least one of said first data. The present invention is also related to a method for executing queries within a relational database, a database access system compiled on a computer environment, a clinical workstation implementing on a computer environment a representation of a group of processes, operations, services, acts, objects and persons within a hospital, and finally a hospital information system stored on a network of computer and workstations.

#### French Abstract

La presente invention se rapporte tout d'abord a une base de donnees relationnelles compilee / stockee sur environnement informatique et concu pour etre accessible par des programmes d'application effectuant une consultation de ladite base de donnees et compiles / stockes sur ledit environnement informatique. Ladite base de donnees relationnelles comporte un premier ensemble de tables dotees de premieres colonnes et de lignes contenant des premieres donnees, et un second ensemble de tables dotees de secondes colonnes et lignes contenant des secondes donnees, chacune de ces secondes donnees constituant une representation redondante d'au moins une desdites premieres donnees. La presente invention se rapporte egalement a un procede permettant d'effectuer des consultations a l'interieur d'une base de donnees relationnelles, a un systeme d'accès a une base de donnees, compile sur un environnement informatique donne, a une station de travail de milieu hospitalier mettant en oeuvre sur un environnement informatique une representation d'un groupe de processus, d'operations, de services, de faits, d'objets et de personnes d'un milieu hospitalier, et elle se rapporte a un systeme d'informations relatives aux donnees cliniques stockees sur un reseau d'ordinateurs et de stations de travail.

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... operational (Aug. 95) 59 38 8

... conceptual tables (Mb) 1t2 4149 15,08

total DB size (Mb) 1641 4121 844

Overhead (%) 01071/o 0111% 1179%

Table 6:

Summary of effect of scaling up the number of users, size of the application or amount of data of a System 9 application on the presentation workstation, application server or database server

Hardware Presentation Application server Oatbase server

Application workstation **relational** database compiled/stored on a computer environment and adapted for access by application programs executing a query within said database and compiled/stored on said...

File 8: Ei Compendex(R) 1970-2004/Jan W4  
(c) 2004 Elsevier Eng. Info. Inc.  
File 35: Dissertation Abs Online 1861-2004/Jan  
(c) 2004 ProQuest Info&Learning  
File 202: Info. Sci. & Tech. Abs. 1966-2004/Jan 20  
(c) 2004 EBSCO Publishing  
File 65: Inside Conferences 1993-2004/Feb W2  
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File 94: JICST-EPlus 1985-2004/Feb W1  
(c) 2004 Japan Science and Tech Corp(JST)  
File 483: Newspaper Abs Daily 1986-2004/Feb 06  
(c) 2004 ProQuest Info&Learning  
File 6: NTIS 1964-2004/Feb W2  
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File 144: Pascal 1973-2004/Feb W1  
(c) 2004 INIST/CNRS  
File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
File 34: SciSearch(R) Cited Ref Sci 1990-2004/Feb W1  
(c) 2004 Inst for Sci Info  
File 99: Wilson Appl. Sci & Tech Abs 1983-2004/Jan  
(c) 2004 The HW Wilson Co.  
File 583: Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 266: FEDRIP 2004/Dec  
Comp & dist by NTIS, Intl Copyright All Rights Res  
File 95: TEME-Technology & Management 1989-2004/Jan W4  
(c) 2004 FIZ TECHNIK  
File 438: Library Lit. & Info. Science 1984-2004/Jan  
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Set	Items	Description
S1	3148866	TABLE? ? OR ARRAY? ? OR MATRIX?? OR MATRICE? ? OR DATABASE? ? OR DATA()BASE? ?
S2	211026	(RELATIONSHIP? ? OR RELATE? ? OR RELATION? ? OR DEPENDEN? - OR ASSOCIATION? OR REPORT? OR CONSTRAINT? ? OR AFFILIATION? ? OR INTERRELATION? ?)(10N)(PARENT? ? OR CHILD? ? OR CHILDREN? ? OR LEAF? ? OR LEAVES OR NODE? ?)
S3	1279	(THIRD OR 3RD)(3W)S1
S4	13784	S1(1W)(THREE OR 3)
S5	397	(THIRD OR 3RD)(3W)TABLE? ?
S6	5690185	SUMMAR? OR REPORT???
S7	66339	RELATIONAL OR RDBMS
S8	286	S3 AND S6
S9	55	S3 AND S7
S10	2130	S4 AND S6
S11	175	S4 AND S7
S12	220	S5 AND (S6:S7 OR S2)
S13	220	S5 AND S6
S14	0	S5 AND S7
S15	1	S5 AND S2
S16	5	S3 AND S2
S17	115	(THIRD OR 3RD)(1W)TABLE? ?
S18	68	S17 AND S6
S19	73	S15:S16 OR S18
S20	73	RD (unique items)
S21	62	S20 NOT PY=2000:2004
S22	9830	S6(10N)TABLE
S23	48	S22 AND S7
S24	51	S22 AND S2
S25	99	S23:S24
S26	80	RD (unique items)
S27	64	S26 NOT (S21 OR PY=2000:2004)

27/5/1 (Item 1 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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03911377 E.I. No: EIP94081351873

Title: **Implementing a relational database for an accelerated-life-test facility**

Author: Barton, Russell R.

Corporate Source: Pennsylvania State Univ, University Park, PA, USA

Source: IEEE Transactions on Reliability v 43 n 1 Mar 1994. p 11-21

Publication Year: 1994

CODEN: IEERAJ ISSN: 0018-9529

Language: English

Document Type: JA; (Journal Article) Treatment: A; (Applications); G; (General Review)

Journal Announcement: 9409W4

Abstract: This paper describes the design of a **relational** database and associated command structure for an accelerated-life-test facility. The primary goals of the design were to: 1) improve data integrity, and 2) provide a complete & consistent historical record of reliability test results. The intended reader is not the database expert, but the engineer who wants to understand the issues involved in automating the reliability-data collection & reporting process. The paper - shows (via the story of a particular reliability database design) in a tutorial fashion how to use system requirements and the formalisms of the **relational** model to create a database system for engineering tests serves as a guide for developing **relational** database applications for other engineering & production activities. The paper makes three primary contributions by showing: A practical method for constructing a **relational** database. The method is based on an IDEFO representation of the testing process, which is easier for the database novice to understand & implement than the usual approaches of data flow or entity-relationship diagrams. The value of a particular database structure for maintaining engineering test database integrity: A table for test measurements, a table for kinds of test measurements, and a **table** for test measurement procedures. How to write data entry/ **reporting** application programs that maintain data integrity and ease the user's input burden. While specific issues in reliability testing are discussed, the methodology to construct the database and user interface applies broadly. (Author abstract) 11 Refs.

Descriptors: **Relational** database systems; Test facilities; Reliability; Data acquisition; Personal computers; Reliability theory; User interfaces; Industrial applications; Production; Automation

Identifiers: Data integrity; Accelerated lifetest facility; Reliability tests; Data independence

Classification Codes:

723.3 (Database Systems); 723.2 (Data Processing); 723.5 (Computer Applications); 913.1 (Production Engineering)

723 (Computer Software); 913 (Production Planning & Control)

72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT)

27/5/2 (Item 2 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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02886592 E.I. Monthly No: EI9004040213

Title: **Query processing techniques in the summary - table -by-example database query language.**

Author: Ozsoyoglu, Gultekin; Matos, Victor; Ozsoyoglu, Z. Meral

Corporate Source: Case Western Reserve Univ, Cleveland, OH, USA

Source: ACM Transactions on Database Systems v 14 n 4 Dec 1989 p 526-573

Publication Year: 1989

CODEN: ATDSD3 ISSN: 0362-5915

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 9004

Abstract: **Summary - Table -by-Example** (STBE) is a graphical language suitable for statistical database applications. STBE queries have a

hierarchical subquery structure and manipulate summary tables and relations with set-valued attributes. The hierarchical arrangement of STBE queries naturally implies a tuple-by-tuple subquery evaluation strategy, which may not be the best query processing strategy. We discuss the query processing techniques used in STBE. We first convert an STBE query into an 'extended' **relational** algebra (ERA) expression. Two transformations are introduced to remove the hierarchical arrangement of subqueries so that query optimization is possible. To solve the 'empty partition' problem of aggregate function evaluation, directional join (one-sided outer-join) is utilized. We give the algebraic properties of the ERA operators to obtain an 'improved' ERA expression. Finally we briefly discuss the generation of alternative implementations of a given ERA expression. (Edited author abstract) 45 Refs.

Descriptors: \*DATABASE SYSTEMS--\*Query Languages; MATHEMATICAL TECHNIQUES --Set Theory

Identifiers: QUERY PROCESSING TECHNIQUES; **SUMMARY - TABLE** -BY-EXAMPLE QUERY LANGUAGE; STATISTICAL DATABASES; EXTENDED **RELATIONAL** ALGEBRA

Classification Codes:

723 (Computer Software); 921 (Applied Mathematics)

72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

27/5/3 (Item 3 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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02844410 E.I. Monthly No: EI9001002863

Title: **Time-by-example query language for historical databases.**

Author: Tansel, Abdullah U.; Arkun, M. Erol; Ozsoyoglu, Gultekin

Corporate Source: Baruch Coll, Dep of Statistics & Computer Information Systems, City Univ of New York, NY, USA

Source: IEEE Transactions on Software Engineering v 15 n 4 Apr 1989 p 464-478

Publication Year: 1989

CODEN: IESEDJ ISSN: 0098-5589

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical); A; Applications)

Journal Announcement: 9001

Abstract: The authors propose a graphical query language, Time-by-Example (TBE), which has suitable constructs for interacting with historical **relational** databases in a natural way. TBE is user-friendly. It follows the graphical, two-dimensional approach of such previous languages as Query-by-Example (QBE), Aggregation-by-Example (ABE), and **Summary - Table** -by-Example (STBE). TBE also uses the hierarchical window (subquery) concept of ABE and STBE. TBE manipulates triple-valued (set-triple-valued) attributes and historical relations. Set-theoretic expressions are followed to deal with time intervals. 41 refs.

Descriptors: \*DATABASE SYSTEMS--\*Query Languages; COMPUTER PROGRAMMING LANGUAGES--Design

Identifiers: HISTORICAL DATABASES; QUERY LANGUAGES; QUERY PROCESSING; **RELATIONAL** DATABASES

Classification Codes:

723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

27/5/4 (Item 4 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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02350051 E.I. Monthly No: EIM8711-075911

Title: **EXTENSION OF RELATIONAL ALGEBRA FOR SUMMARY TABLES.**

Author: Ozsoyoglu, Z. Meral; Ozsoyoglu, Gultekin

Corporate Source: Case Western Reserve Univ, Cleveland, OH, USA

Conference Title: Proceedings of the Second International Workshop on Statistical Database Management.

Conference Location: Los Altos, CA, USA Conference Date: 19830927

Sponsor: Lawrence Berkeley Lab, Berkeley, CA, USA; US DOE, Washington, DC, USA; ACM, Special Interest Group on Management of Data, New York, NY, USA; American Statistical Assoc, Statistical Computing Section, Washington, DC, USA; IEEE Computer Soc, Technical Committee on Database Engineering, Los Alamitos, CA, USA; Statistics Canada, Can

E.I. Conference No.: 09904

Source: Publ by Lawrence Berkeley Lab, Berkeley, CA, USA p 202-211

Publication Year: 1983

Language: English

Document Type: PA; (Conference Paper)

Journal Announcement: 8711

Abstract: A **summary table** is one of the useful data structures used in statistical databases. For an algebraic **summary table** manipulation language, we first extend **relational** algebra for nested relations and aggregate functions, then propose a **summary table** manipulation language based on the extended algebra. A new operator, called aggregation-by-template is introduced, and other operators of the **relational** algebra are modified to apply nested relations. A special case of **summary** tables, called primitive **summary table**, is distinguished since it can be directly represented by a nested relation. Primitive summary tables are viewed as building blocks of summary tables. Operators for constructing and manipulating summary tables, and their properties are also discussed. (Author abstract) 10 refs.

Descriptors: \*DATABASE SYSTEMS; MATHEMATICAL TECHNIQUES--Algebra

Identifiers: **RELATIONAL** ALGEBRA; SUMMARY TABLES; NESTED RELATIONS; AGGREGATE FUNCTIONS; SET FORMATION OPERATORS; ARITHMETIC CAPABILITIES

Classification Codes:

723 (Computer Software); 921 (Applied Mathematics)

72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

27/5/5 (Item 5 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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02105128 E.I. Monthly No: EIM8607-047578

Title: LANGUAGE AND A PHYSICAL ORGANIZATION TECHNIQUE FOR SUMMARY TABLES.

Author: Ozsoyoglu, Gultekin; Ozsoyoglu, Z. Meral; Mata, Francisco

Corporate Source: Case Western Reserve Univ, Cleveland, OH, USA

Conference Title: Proceedings of ACM-SIGMOD 1985 International Conference on Management of Data.

Conference Location: Austin, TX, USA Conference Date: 19850528

Sponsor: ACM, New York, NY, USA

E.I. Conference No.: 07358

Source: Publ by ACM, New York, NY, USA p 3-16

Publication Year: 1985

Language: English

Document Type: PA; (Conference Paper)

Journal Announcement: 8607

Abstract: A **summary table** is a tabular representation of **summary** data, and is a useful data structure for statistical databases. Primitive summary tables are basic building blocks of summary tables, and can be represented as relations with set-valued attributes. In this paper, we propose a set of **summary table** manipulation operators that, together with an algebra of set-valued relations, form an algebraic language for manipulating set-valued relations and arbitrary summary tables. We then describe a physical organization technique for **summary** tables, and discuss an implementation for **summary table** operators utilizing this technique. (Author abstract) 17 refs.

Descriptors: \*DATABASE SYSTEMS; DATA PROCESSING--Data Reduction and Analysis; STATISTICAL METHODS; COMPUTER PROGRAMMING LANGUAGES

Identifiers: STATISTICAL DATABASES (SDB); STATISTICAL DATABASE MANAGEMENT SYSTEM (SDBMS); SUMMARY TABLES; **RELATIONAL** DATABASES

Classification Codes:

723 (Computer Software); 922 (Statistical Methods)

72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

27/5/6 (Item 6 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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01691472 E.I. Monthly No: EIM8410-080782

Title: SUMMARY - TABLE -BY-EXAMPLE: A DATABASE QUERY LANGUAGE FOR  
MANIPULATING SUMMARY DATA.

Author: Ozsoyoglu, Z. M.; Ozsoyoglu, G.  
Corporate Source: Case Western Reserve Univ, Dep of Computer Engineering  
& Science, Cleveland, Ohio, USA  
Conference Title: International Conference on Data Engineering.  
Conference Location: Los Angeles, Calif, USA Conference Date: 19840424  
Sponsor: IEEE Computer Soc, Los Alamitos, Calif, USA; IEEE, New York, NY,  
USA

E.I. Conference No.: 05089  
Available: Publ by IEEE, New York, NY, USA. Available from IEEE Service Cent  
for 84CH2031-3), Piscataway, NJ, USA p 193-202  
Publication Year: 1984  
ISBN: 0-8186-0533-2  
Language: English  
Document Type: PA; (Conference Paper)  
Journal Announcement: 8410  
Descriptors: \*COMPUTER PROGRAMMING LANGUAGES  
Identifiers: DATA ENGINEERING; STBE; SUMMARY TABLE BY EXAMPLE; DATA  
BASE QUERY LANGUAGES; RELATIONAL MODELS; QUERY EVALUATIONS; RELATIONS AND  
SUMMARY TABLES MANIPULATION; STATISTICAL DATABASES  
Classification Codes:  
723 (Computer Software)  
72 (COMPUTERS & DATA PROCESSING)

27/5/9 (Item 3 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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918148 ORDER NO: AAD86-11456

EXTENSIONS TO THE RELATIONAL DATA MODEL MODEL FOR STATISTICAL DATABASE  
APPLICATIONS (COMPUTERS, QUERY PROCESSING)

Author: MATOS, VICTOR MANUEL  
Degree: PH.D.  
Year: 1986  
Corporate Source/Institution: CASE WESTERN RESERVE UNIVERSITY (0042)  
Available: VOLUME 47/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 1149. 197 PAGES  
Descriptors: COMPUTER SCIENCE  
Descriptor Codes: 0984

In commercial network database management systems, set-valued fields  
and aggregate functions are commonly supported. However, the **relational**  
database model, as defined by Codd, does not include set-valued attributes  
or aggregate functions. Recently, Klug extended the **relational** model by  
incorporating aggregate functions and by defining **relational** algebra and  
calculus languages.

In this thesis, **relational** calculus database query language (as  
defined by Klug) is extended to manipulate set-valued attributes and to  
utilize aggregate functions. The expressive power of the extended language  
is shown to be equivalent to the extended **relational** algebra (ERA) of  
Ozsoyoglu and Ozsoyoglu which includes three new operators, namely, pack,  
unpack and aggregation-by-template. The extended languages form a  
theoretical framework for statistical database query languages.

**Summary - Table -by-Example (STBE)** is a graphical, user friendly  
language based in the extended **relational** calculus. STBE, suitable for  
statistical database applications, permits queries with a hierarchical  
subquery structure, and manipulates relations with set-valued attributes  
and summary tables.

The hierarchical arrangement of STBE queries naturally implies a  
tuple-by-tuple subquery evaluation strategy (similar to the nested loops  
implementation technique) which may not be the best query processing



strategy. In this thesis we discuss the query processing techniques used in STBE. We first convert an STBE query into an extended **relational** algebra expression using techniques similar to those proposed for removing the nesting from SQL queries. Two transformations are introduced to remove the hierarchical arrangement of subqueries so that query optimization is possible. To solve the "empty partition" problem of aggregate function evaluation, directional join (one-sided outer-join) is utilized. We then give the algebraic properties of the ERA operators to obtain an "improved" ERA expression. Finally we list alternative access paths and their cost formulas for obtaining an access path with the smallest cost. In addition to revising the access paths from SQL and ABE (Aggregates-By-Example) for STBE, new access paths for the ERA operators pack, unpack, and the aggregate-by-template are presented.

27/5/18 (Item 4 from file: 202)  
DIALOG(R)File 202:Info. Sci. & Tech. Abs.  
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1905090

**The theory of relational databases.**

Author(s): Maier, D  
(635 pages)  
Publication Date: 1983  
ISBN: 0-914894-42-0  
Publisher: Computer Science Press  
Language: English  
Place of Publication: United States  
Document Type: Book  
Record Type: Abstract  
Journal Announcement: 1900

One of the major advantages of the **relational** model is its uniformity. All data is viewed as being stored in tables, with each row in the **table** having the same format. Each row in the **table** summarizes some object or relationship in the real world. Whether the corresponding entities in the real world actually possess the uniformity the **relational** model ascribes to them is a question that the user of the model must answer. It is a question of the suitability of the model for the application at hand.

Descriptors: Databases; Models; **Relational** databases

Classification Codes and Description: 6.02 (Bibliographic Search Services, Databases)

Main Heading: Information Systems and Applications

27/5/20 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
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5870529 INSPEC Abstract Number: C9805-6160Z-007

**Title: Data warehouses and metadata: the importance of metadata management**

Author(s): Gardner, S.R.

Conference Title: Data Mining Data Warehousing and Client/Server Databases. Proceedings of the 8th International Database Workshop (Industrial Volume) p.61-71

Editor(s): Siu, B.; Kwan, P.K.M.; Lam, B.; de Vries, P.

Publisher: Springer-Verlag Singapore, Singapore

Publication Date: 1997 Country of Publication: Singapore xii+303 pp.

ISBN: 981 3083 53 0 Material Identity Number: XX98-00280

Conference Title: Proceedings of 8th International Hong Kong Computer Society Database Workshop. Data Mining, Data Warehousing and Client/Server Databases ISBN

Conference Sponsor: Borland (HK); City Univ. Hong Kong; Hong Kong Polytech. Univ.; Hong Kong Comput. Soc.; et al

Conference Date: 29-31 July 1997 Conference Location: Hong Kong

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Metadata is popularly defined as data about data. In a **relational** database, metadata is the representation of the objects defined in the database, in other words the definitions of the tables, columns, databases, views and any other objects. When used in association with data warehousing, metadata refers to anything that defines a data warehouse object-a **table**, a column, a query, a **report**, a business rule or a transformation algorithm. Understanding these definitions is critical for all aspects of the data warehouse development process. Metadata management must be tightly controlled, from the development of extraction programs which extract data from the source operational systems, to the transformation of the data into the target data warehouse. The data warehouse is only useful to gain an competitive advantage if the data that is transformed to populate the information store is able to accurately answer the business questions for which the warehouse was built. (0 Refs)

Subfile: C

Descriptors: business data processing; management information systems; very large databases

Identifiers: data warehouses; metadata management; **relational** database; data representation; extraction programs; source operational systems; data transformation; competitive advantage; information store; business questions

Class Codes: C6160Z (Other DBMS); C7100 (Business and administration)

Copyright 1998, IEE

27/5/21 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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4858323 INSPEC Abstract Number: C9502-7190-015

Title: **Designing a relational database for Colorado's integrated resource management program**

Author(s): Bard, S.K.; Golden, B.L.

p.171-6

Editor(s): Watson, D.G.; Zazueta, F.S.; Harrison, T.V.

Publisher: American Soc. Agric. Eng, St.Joseph, MI, USA

Publication Date: 1994 Country of Publication: USA xvii+918 pp.

Conference Title: Proceedings of 5th International Conference on Computers in Agriculture

Conference Date: 6-9 Feb. 1994 Conference Location: Orlando, FL, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: ORACLE's CASE/sup \*/Method for developing a **relational** database was selected to design an information system for Colorado's Integrated Resource Management (IRM) beef project. There were eight phases in the database development life cycle: strategy, analysis, design, build, user documentation, transition, and production. The design process consisted of completing the strategy, analysis and design stages. The strategy and analysis specifications were completed, the database tables, **reports**, and code guide were designed, and the **table** sizes were estimated. Suggested procedures for the build, user documentation, transition and production phases were also presented. (5 Refs)

Subfile: C

Descriptors: computer aided software engineering; farming; **relational** databases; systems analysis

Identifiers: **relational** database design; Colorado's Integrated Resource Management program; ORACLE's CASE/sup \*/Method; information system; database development life cycle; strategy; analysis; design; build; user documentation; transition; production; database tables; reports; code guide; table sizes; production phases; beef project

Class Codes: C7190 (Other fields of business and administrative computing); C6160D (Relational databases); C6110B (Software engineering techniques); C6115 (Programming support)

Copyright 1995, IEE

27/5/26 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

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03983128 INSPEC Abstract Number: C91064549

**Title: Oracle moves into Windows**

Journal: Database Review vol.3, no.3 p.6-8

Publication Date: June 1991 Country of Publication: USA

CODEN: DARVEH ISSN: 1042-2595

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P); Product Review (R)

Abstract: Oracle is now shipping Oracle Card and oracle for Windows, two tools that allow users to develop Microsoft Windows-based applications to access data stores in Oracle databases. Oracle Card allows developers to build Hypercard-like applications using facilities similar to those provided by Hyper\*SQL in Oracle for the Mackintosh. Oracle Hypercard applications developed on the Mackintosh can be ported to Oracle Card, and vice versa. Oracle Card is based on Spinnaker Software's PLUS technology which provides GUI Hypercard development facilities for the Mackintosh, DOS Windows and OS/2 Presentation Manager environments. Oracle Card has three main components: Oracle Card development tool for building stacks, Table Builder tool (pre-built stack) for creating and managing tables and Query Builder tool (a pre-built stack) for query and **reporting on table** data. The author discusses the development of Oracle Card applications and Oracle for windows. (0 Refs)

Subfile: C

Descriptors: application generators; graphical user interfaces; hypermedia; information retrieval; query languages; **relational** databases

Identifiers: data access; graphical user interface; Oracle Card; Windows; Microsoft Windows; Oracle databases; Hypercard; Hyper\*SQL; Mackintosh; Oracle Hypercard; Spinnaker Software's PLUS technology; GUI; DOS Windows; OS/2 Presentation Manager; development tool; Table Builder tool; Query Builder tool; table data

Class Codes: C6115 (Programming support); C7250 (Information storage and retrieval); C6180 (User interfaces); C6160Z (Other DBMS)

27/5/27 (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03983128 INSPEC Abstract Number: C88013839

**Title: Databases**

Author(s): Bidmead, C.

Journal: Which Computer? p.42-54

Publication Date: Dec. 1987 Country of Publication: UK

CODEN: WHCOD8 ISSN: 0140-3435

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P); Product Review (R)

Abstract: Database packages intended as construction tools for users with some knowledge of systems analysis and programming are reviewed. The nature of the Codd **relational** model is outlined, and it is pointed out that many database packages which claim, as do most of those examined in the article, to implement the model do not properly do so. dBase III Plus 1.1 (and the Foxbase clone and Clipper dBase compiler), Paradox 2.0, DataFlex, rBase System V and superfile are discussed. A **table summarises** features of 35 suppliers' products. (0 Refs)

Subfile: C

Descriptors: buyer's guides; database management systems; software packages

Identifiers: database construction tools; Codd **relational** model; database packages; dBase III Plus 1.1; Foxbase; Clipper dBase compiler; Paradox 2.0; DataFlex; rBase System V; superfile

Class Codes: C6160 (Database management systems (DBMS))

27/5/37 (Item 9 from file: 94)

DIALOG(R)File 94:JICST-Eplus

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00460670 JICST ACCESSION NUMBER: 87A0397161 FILE SEGMENT: JICST-E

**Summary information service system SIMPLEX.**

UENO JUN'ICHI (1)

(1) Nihondenki C&CJohoken

Joho Shori Gakkai Kenkyu Hokoku, 1987, VOL.87,NO.48(DB-60),

PAGE.60.5.1-60.5.8, FIG.7, REF.14

JOURNAL NUMBER: Z0031BAO ISSN NO: 0919-6072

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:061.68

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: With interactive DB query systems that generate statistical summary data and present summary tables/charts, most of end users are faced with difficult problems in describing complicated retrieval condition. As a solution to the problem, we propose summary information service system SIMPLEX whose purpose is to provide Decision Support System for executives/managers. SIMPLEX utilizes multi-dimensional classification structure as a base of statistical data management and provides simple and plain retrieval interface that interprets form of **summary table** as query condition. Statistical data management and retrieval interface of SIMPLEX is presented.(author abst.)

DESCRIPTORS: statistics; **relational** data base; DBMS; data management; interface; decision support system; information service; information retrieval; hierarchical structure; query; diagram and table; interactive processing

BROADER DESCRIPTORS: database; computer application system; system; management; information system; service; retrieval; structure; action and behavior; treatment

CLASSIFICATION CODE(S): JD03030U

27/5/64 (Item 5 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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02420217

DEVELOPMENTS IN DATABASE USAGE PROFILED

WORLD - DEVELOPMENTS IN DATABASE USAGE PROFILED

Financial Times (C) 1991 (FT) 10 January 1989 p12

An extended feature with tables and results from a report by Ovum, 'The Future of the Database', profiles the use of distributed database management and the new **relational** database technology in the US and Europe. Tables reveal that total database revenues for the US in 1988 were USD1rl.78 bil compared with revenues of USD1rl.19 bil in Europe. Revenues from mainframe databases accounted for 47% in the US and 41% in Europe. Companies using distributed database management include the Pentagon, the W German National Airline Lufthansa and the London Metropolitan Police. The article considers the distributed database management approach and the appearance of the advanced **relational** database technology which has improved database management. A **table** based on the Ovum **report** predicts an increase in the use of **relational** databases compared to non-**relational** databases and the percentage of **relational** databases with distributed capabilities by 1990 and 1995. The report 'The Future of the Database' is available from: Ovum Limited, 7 Rathbone St, London W1P 1AF. Telephone: 01 255 260. Price GBP550.

File 275:Gale Group Computer DB(TM) 1983-2004/Feb 09  
     (c) 2004 The Gale Group  
 File 621:Gale Group New Prod.Annou.(R) 1985-2004/Feb 09  
     (c) 2004 The Gale Group  
 File 636:Gale Group Newsletter DB(TM) 1987-2004/Feb 09  
     (c) 2004 The Gale Group  
 File 16:Gale Group PROMT(R) 1990-2004/Feb 09  
     (c) 2004 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2004/Feb 09  
     (c)2004 The Gale Group  
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     (c) 2004 McGraw-Hill Co. Inc  
 File 15:ABI/Inform(R) 1971-2004/Feb 07  
     (c) 2004 ProQuest Info&Learning  
 File 647:CMP Computer Fulltext 1988-2004/Feb W1  
     (c) 2004 CMP Media, LLC  
 File 674:Computer News Fulltext 1989-2004/Feb W1  
     (c) 2004 IDG Communications  
 File 696:DIALOG Telecom. Newsletters 1995-2004/Feb 08  
     (c) 2004 The Dialog Corp.  
 File 369:New Scientist 1994-2004/Feb W1  
     (c) 2004 Reed Business Information Ltd.  
 File 810:Business Wire 1986-1999/Feb 28  
     (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
     (c) 1999 PR Newswire Association Inc  
 File 610:Business Wire 1999-2004/Feb 09  
     (c) 2004 Business Wire.  
 File 613:PR Newswire 1999-2004/Feb 09  
     (c) 2004 PR Newswire Association Inc

Set	Items	Description
S1	4156714	TABLE? ? OR ARRAY? ? OR MATRIX?? OR MATRICE? ? OR DATABASE? ? OR DATA()BASE? ?
S2	198373	(RELATIONSHIP? ? OR RELATE? ? OR RELATION? ? OR DEPENDEN? - OR ASSOCIATION? OR REPORT? OR CONSTRAINT? ? OR AFFILIATION? ? OR INTERRELATION? ?)(10N)(PARENT? ? OR CHILD? ? OR CHILDREN? ? OR LEAF? ? OR LEAVES OR NODE? ?)
S3	10201	(THIRD OR 3RD)(3W)S1
S4	76378	S1(1W)(THREE OR 3)
S5	4581	(THIRD OR 3RD)(3W)TABLE? ?
S6	9258088	SUMMAR? OR REPORT???
S7	154159	RELATIONAL OR RDBMS
S8	4591	(THIRD OR 3RD)(1W)S1
S9	1069	(THIRD OR 3RD)(1W)TABLE
S10	723	S8(50N)S6
S11	255	S8(50N)S7
S12	3	S8(50N)S2
S13	197	S9(50N)S6
S14	8	S9(50N)S7
S15	160	S9(30N)S6
S16	99	RD (unique items)
S17	54	S16 NOT PY=2000:2004
S18	11	S12 OR S14
S19	9	RD (unique items)
S20	61	S17 OR S19
S21	58	S20 NOT PD=19990416:19991231
S22	108262	S6(10N)TABLE
S23	284	S22(30N)S7
S24	541	S22(30N)S2
S25	0	S22(30N)S7(30N)S2
S26	3	S22(50N)S7(50N)S2
S27	2	RD (unique items)

21/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02580842 SUPPLIER NUMBER: 82886063 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Building your database and mounting it on the web: A model you can follow.**  
Brown, Christopher C.  
Computers in Libraries, 22, 2, 10(6)  
Feb, 2002  
ISSN: 1041-7915 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 3075 LINE COUNT: 00247

... works, or multiple authors for a single work. To properly represent authors in the database, I needed to build many-to-many relationships--a true **relational** database. In addition to the Title Table, which keeps track of unique titles, I added the Author Table to keep track of unique authors, and a middle table, the Author Link Table, to relate the other two tables to each other. By adding this **third table** in the middle, with one-to-many relationships between each of the outer tables in relation to the middle table, I established many-to-many...

21/3,K/2 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02057150 SUPPLIER NUMBER: 19184006 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Integrating objects with relational databases. (Technology Information) (Cover Story)**  
Hayes, Frank; Hillyard, Keith  
Enterprise Systems Journal, v12, n2, p24(6)  
Feb, 1997  
DOCUMENT TYPE: Cover Story ISSN: 1053-6566 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2754 LINE COUNT: 00224

... one mappings can be easily set up and maintained in the object model.

#### Join Tables And Aggregate Navigation

Many-to-many relationships are common in **relational** databases. These are traditionally set up as two tables that reference a common **third table**, typically called a join table. References are accomplished using foreign keys. Depending on whether the developer wants to keep the notion of a join table in the object model, the mapping can be defined in one of two ways. It can be defined either as three classes, mirroring the **relational** definition in a class-for-table fashion, or as two classes, each with a one-to-many relationship defined as a set. The power of...

21/3,K/3 (Item 3 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01842817 SUPPLIER NUMBER: 17487305 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**ZDBOp's NetBench branches out; adds Mac, Windows clients to simulate real-world networks. (Ziff-Davis Publishing Co's NetBench 4.0 testing application) (Product Announcement)**  
Nguyen, Huy N.  
PC Week, v12, n38, p20(1)  
Sep 25, 1995  
DOCUMENT TYPE: Product Announcement ISSN: 0740-1604 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 768 LINE COUNT: 00065

... server's hardware and software. These tables make it easy to get the information required by NetBench's License Agreement to publish the results.

The **third table** reports the total throughput numbers in megabits

per second, in addition to bytes per second. Like the previous version of NetBench, NetBench 4.0 requires Microsoft...

21/3,K/4 (Item 4 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01653801 SUPPLIER NUMBER: 16271234  
Tuning VB's JET engine. (Visual Basic's Joint Engine Technology database engine) (Technical) (Tutorial) (Cover Story)  
Brust, Andrew J.  
Visual Basic Programmer's Journal, v4, n6, p20(9)  
August-Sept, 1994  
DOCUMENT TYPE: Cover Story ISSN: 1075-1955 LANGUAGE: ENGLISH  
RECORD TYPE: ABSTRACT

...ABSTRACT: using the Professional Edition can apply several techniques to optimize their applications, however. One example extracts data from two tables, and combines them into a **third** denormalized **table**, which is used as a source for **reports** or querying. Using the denormalized table, as opposed to buliding a single dynaset, allows for quicker ad hoc queries, and lets the queries be performed...

21/3,K/5 (Item 5 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01249989 SUPPLIER NUMBER: 06763493 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
The 'relational-ization' of MUMPS. (special edition on MUMPS multiuser computer programming language)  
Grabscheid, Paul  
Computers in Healthcare, v9, n7, p16(3)  
June 15, 1988  
ISSN: 0745-1075 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1398 LINE COUNT: 00115

... have a second table that contains physicians' names along with their specialties and admitting privileges. For user convenience, it would be advantageous to define a **third table** (in typical **relational** terminology a "view") which combines data from the first two. With such a table we could more easily answer questions that involve both patient and ...

21/3,K/6 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01798544 Supplier Number: 53671197 (USE FORMAT 7 FOR FULLTEXT)  
/C O R R E C T I O N -- Ragen MacKenzie Group Inc./.  
PR Newswire, p4617  
Jan 29, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1288

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
In SFTU044, "Ragen MacKenzie Group Inc. **Reports** Record First Quarter Operating Net Income," moved Thursday, Jan. 19, in the **third table** of the Condensed Consolidated Statements of Financial Condition, Assets, the seventh line, second column should read "2,661" rather than "127,565" and the eighth...

21/3,K/7 (Item 2 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2004 The Gale Group. All rts. reserv.

01758274 Supplier Number: 53225597 (USE FORMAT 7 FOR FULLTEXT)  
**Sparkling Spring Water Group Limited Announces 3rd Quarter Financial Results (All currency amounts in \$US).**  
PR Newswire, p4401  
Nov 17, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 2071

... included in Cost of Sales), and for bad debt by \$475,000 (included in Selling, Delivery and Administrative expense). See accompanying financial tables for the **third** quarter "Table 1" and nine month results "Table 2".

The Company believes the third quarter of 1998 is not necessarily comparable to the 1997 period. In 1998, the Company changed its internal **reporting** timeframe from the thirteen four-week periods used in 1997 to twelve monthly periods. As a result, the 1998 third quarter reporting period included 63...

21/3,K/8 (Item 3 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01373753 Supplier Number: 46330078 (USE FORMAT 7 FOR FULLTEXT)  
**MIDMARK IMPROVES PRODUCTIVITY BY 50% WITH ABB ROBOT**  
News Release, pN/A  
April 25, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 683

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:

...designed by Midmark, which are placed around the robot. Parts can be loaded on two of the tables while the robot is welding at the **third table**, keeping the robot in continuous operation. Welding Engineer, Tim Shoup, **reports** that the 2400 is currently welding five or six different parts, ranging from two to eight square feet in size. The number of welds required...

21/3,K/9 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

02044076 Supplier Number: 43720127 (USE FORMAT 7 FOR FULLTEXT)  
**Compsoft bridges Windows and Dos with database**  
Computer Product Update, pN/A  
March 19, 1993  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 374

... radio button, picture and memo fields. These fields have names which can be accessed within any table.

Tables are grouped into hierarchies. Direct and indirect **relational** links can be formed between different tables. A direct relationship is a link between a field in one table and an index in another. An indirect link is a link between two tables made in a **third table**.

Associated databases can be grouped into directories.

Equinox has a processing language like Basic. It has operations which include forms, **reports**, exports, imports and selections. The programming language includes event-driven processing. Events can include when a user presses a button or when a mouse is...



21/3,K/10 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

06078133 Supplier Number: 53575730  
**UK: STANLEY LEISURE REPORTS PROFIT GAIN.**  
Daily Telegraph, p28  
Jan 15, 1999  
Language: English Record Type: Abstract  
Document Type: Newspaper; Trade

ABSTRACT:  
...racing operation was being affected by the fact that fancied horses were coming first in a high proportion of races. Stanley Leisure's casino business **reported** an 18% increase in operating profits while margins in this and the betting unit failed to match expectations in the **third** quarter. **Table** : Stanley Leisure Figures in GB[pound] mn Current Previous/Change Turnover 239 232 3.01% Pre-tax profits 14.5 - 43%  
...

21/3,K/11 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

04048121 Supplier Number: 45888116 (USE FORMAT 7 FOR FULLTEXT)  
**HOLLYWOOD CASINO CORPORATION REPORTS THIRD QUARTER EARNINGS.**  
Business Wire, p10271009  
Oct 27, 1995  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 2327

... year levels for the third quarter, the large year-to-year swing in its table games hold percentage was a principal factor. In the 1995 **third** quarter, **table** hold was 1.8% lower than the 16.5% **reported** in the 1994 third quarter, which translates to a \$3.1 million decline in table games revenues.

The remaining \$3.8 million decline in net...

21/3,K/12 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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04001641 Supplier Number: 45811532 (USE FORMAT 7 FOR FULLTEXT)  
**ZBOP's NetBench branches out; Adds Mac, Windows clients to simulate real-world networks**  
PC Week, p20  
Sept 25, 1995  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Tabloid; General Trade  
Word Count: 757

... server's hardware and software. These tables make it easy to get the information required by NetBench's License Agreement to publish the results.

The **third table reports** the total throughput numbers in megabits per second, in addition to bytes per second. Like the previous version of NetBench, NetBench 4.0 requires Microsoft...

21/3,K/13 (Item 4 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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03433578 Supplier Number: 44783074

**Top 25 electronic manufacturing firms in the Valley**

The Business Journal - Serving Phoenix & the Valley of the Sun, p13  
June 24, 1994

Language: English Record Type: Abstract  
Document Type: Magazine/Journal; Tabloid; Trade

**ABSTRACT:**

...on the list. Honeywell (Minneapolis, MN) comes in second with 7,400 Valley workers. AlliedSignal Aerospace employs 7,000 people in the Valley, placing it **third**. The **table** also lists number of employees nationwide, 1993 revenue in Arizona and nationally, products manufactured, whether the firm is public or private, percentage of defense- **related** work, **parent** company with location, local principals and year established locally. Research was conducted by Judy Trunnelle.

...

21/3,K/14 (Item 5 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)  
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03389472 Supplier Number: 44707938

**Largest Denver-Area Public Companies**

Denver Business Journal, pA22  
May 27, 1994

Language: English Record Type: Abstract  
Document Type: Magazine/Journal; Trade

**ABSTRACT:**

...revenues of \$10,293,600,000. Tele-Communications ranks second on the list with \$4.153 bil in revenues for 1993. Total Petroleum (North America) **reported** 1993 revenues of \$2,330,500,000, placing it **third**. The **table** also lists last year's rank, 1992 revenues, net income and net income/share : : 1992 and 1993, fiscal year end, stock price on 5...

21/3,K/15 (Item 6 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)  
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02931556 Supplier Number: 43962276 (USE FORMAT 7 FOR FULLTEXT)

**SunNet Manager Popularity Slips**

CommunicationsWeek, p33  
July 12, 1993

Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 567

... features and functions, ease of use, installation and customization, NetView/6000 is rated the best platform for both end-user and OEM market segments,' the **report** said. 'HP OpenView is rated second and SunNet Manager a distant **third**.'

**Table** compares SNMP network management platforms from Hewlett-Packard, IBM and SunConnect. Data omitted: Price

**PLATFORM PRICING**

Comparable development platforms from the three major SNMP network...

21/3,K/16 (Item 7 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)  
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02219653 Supplier Number: 42893626 (USE FORMAT 7 FOR FULLTEXT)

**AST execs top pay list; Akers, Sculley take cuts**

Computer Reseller News, p84

April 6, 1992  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1911

... Olsen's holdings of DEC decreased 20 percent, from \$173.1 million to \$138.3 million during the year.

Four tables accompany article. One table **reports** the top 5 executives from 1988-1991. Another table **reports** on 5 executives' fiscal 1991 pay hike & company's fiscal 1991 earnings gain. A **third table reports** on fiscal 1991 top 5 stock holdings, while the final one **reports** on fiscal 1991 top 5 cash compensation.

#### THROUGH THE YEARS

##### The Top Five

1988

1. John Sculley, Apple \$2,479,000
2. Rod Canion, Compaq...

21/3,K/17 (Item 8 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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01958077 Supplier Number: 42503476 (USE FORMAT 7 FOR FULLTEXT)

#### **Few winners in energy, more in specialties**

Chemical Week, p10

Nov 6, 1991

Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 932

(USE FORMAT 7 FOR FULLTEXT)

#### TEXT:

Chemical profits shrank at almost all energy companies in the **third** quarter ( **table** , below). After-tax profits from operations (excluding nonrecurring and extraordinary items) improved at only three out of 21 chemical operations **reporting** : Du Pont's fibers segment earnings more than doubled, to \$150 million (CW, Oct. 30, p. 4); Exxon Chemical's earnings improved 31%, to \$85...

21/3,K/18 (Item 1 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
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01709072

Piper, Jaffray & Hopwood, Inc Investment Analyst Report on Lieberman Enterprises, Inc .  
CIRR May, 1987 p. 1

Report prepared by M. A. Hamilton consisting of 4 pages. Report contains EPS-P-E Ratio-ROE '86-88E, Sales-EPS '81-88E, Revenue By Segment '88E, **Third Quarter Table** '86-87, Revenue Breakdown '84-88E, Income Statement '84-88E, Balance Sheet '84-88E. ...

21/3,K/19 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

11755148 SUPPLIER NUMBER: 21125551 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Seasonality in Canadian treasury bond returns: an institutional explanation.**

Athanassakos, George; Tian, Yisong Sam

Review of Financial Economics, v7, n1, p65(20)

Wntr, 1998

ISSN: 1058-3300

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 7541

LINE COUNT: 00684

... much higher than in other quarters, but returns in the second quarter seem to be also quite higher than returns in the first and the third quarter.

**Table 1a. Summary** Statistics of Quarterly Bond Returns for the Full Sample

Quarter	Mean	St. Dev	Min	Median	Max
---------	------	---------	-----	--------	-----

Overall period (1963:Q2-1990:Q3)

1	4.5028...				
---	-----------	--	--	--	--

21/3,K/20 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2004 The Gale Group. All rts. reserv.

10993711 SUPPLIER NUMBER: 54344312 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**BUSINESS SITUATION. (fourth quarter 1998)**

Moran, Larry R.; Larkins, Daniel; Morris, Ralph W.

Survey of Current Business, 79, 3, 1(1)

March, 1999

ISSN: 0039-6222

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3586

LINE COUNT: 00480

TEXT:

...fourth quarter of 1998, according to the "preliminary" estimates of the national income and product accounts (NIPA's), after increasing 3.7 percent in the third quarter (table 1 and chart 1); the "advance" fourth-quarter estimate of real GDP, reported in the February "Business Situation," had shown a 5.6-percent increase.(1) The upward revision to real GDP reflected a downward revision to imports...

21/3,K/21 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2004 The Gale Group. All rts. reserv.

10202282 SUPPLIER NUMBER: 20531376 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**U.S. international transactions, fourth quarter and year 1997.**

Bach, Christopher L.

Survey of Current Business, v78, n4, p51(47)

April, 1998

ISSN: 0039-6222

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 12881

LINE COUNT: 01105

... s credit facilities (table C, table 1).

(TABULAR DATA C NOT REPRODUCIBLE IN ASCII)

Claims reported by U.S. banks.--U.S. claims on foreigners reported by U.S. banks increased \$30.5 billion in the fourth quarter, compared with an increase of \$30.6 billion in the third (table 8). Banks' own claims payable in dollars increased strongly in the fourth quarter, by \$48.1 billion, in response to heightened demands for credit in...countries sold dollar assets in response to financial problems, and others purchased dollar assets (table C, table 1).

Liabilities reported by banks.--U.S. liabilities reported by U.S. banks, excluding U.S. Treasury securities, increased \$87.0 billion in the fourth quarter, up sharply from an increase of \$10.1 billion in the third table 9). U.S.-owned banks borrowed heavily from banks in financial centers in the Caribbean and the United Kingdom in order to fund especially

21/3,K/22 (Item 4 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

09818736 SUPPLIER NUMBER: 19929677 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
/C O R R E C T I O N -- Hambrecht & Quist/(Correction Notice)  
PR Newswire, p1029LAW001A  
Oct 29, 1997  
DOCUMENT TYPE: Correction Notice LANGUAGE: English RECORD TYPE:  
Fulltext  
WORD COUNT: 670 LINE COUNT: 00092

TEXT:

In LAM057, Hambrecht & Quist **Reports** Net Income of \$9.7 Million Or 37 Cents Per Share for September Quarter, moved Monday, Oct. 27, we are advised by a representative of the company that in the **third table** ("Consolidated Statement of Operations"), the first number in the row entitled "Brokerage and clearance" should read "4,781" rather than "4,761," as originally issued...

21/3,K/23 (Item 5 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

09456733 SUPPLIER NUMBER: 19363623 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Regionalization in the world crude oil market.**  
Gulen, S. Gurcan  
Energy Journal, v18, n2, p109(18)  
April, 1997  
ISSN: 0195-6574 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 5219 LINE COUNT: 00441

... Brent, a light sweet crude oil, has an API of 38 (degrees) and will be compared to crude oils in both the second and the **third** group.

**Table 2a reports** the results for bivariate cointegration tests for all possible spot price pairs within each of the three groups of crude oil types. Overall, for 23...

21/3,K/24 (Item 6 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

09394034 SUPPLIER NUMBER: 19263433 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
/C O R R E C T I O N -- Sitel Corporation/(Correction Notice)  
PR Newswire, p401MNTU017A  
April 1, 1997  
DOCUMENT TYPE: Correction Notice LANGUAGE: English RECORD TYPE:  
Fulltext  
WORD COUNT: 70 LINE COUNT: 00010

TEXT:

In MNTU017, Sitel Corporation **Reports** Record Annual Revenues and Net Income, moved earlier today, the **third** (last) **table** should read "Year ended December 31, 1995" rather than "Year ended December 31, 1996," as incorrectly transmitted by PR Newswire.

21/3,K/25 (Item 7 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

08800281 SUPPLIER NUMBER: 18460140 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**CGES warns of fourth quarter oil price slide. (Centre for Global Energy Studies' fourth quarter 1996 oil price predictions) (Brief Article)**  
Oil and Gas Journal, v94, n27, p34(1)  
July 1, 1996

DOCUMENT TYPE: Brief Article      ISSN: 0030-1388      LANGUAGE: English  
RECORD TYPE: Fulltext  
WORD COUNT: 461      LINE COUNT: 00059

... said.

"Even without Iraq, the volume of OPEC crude required to meet demand and maintain normal stock levels is expected to fall sharply during the **third quarter**" ( **Table 1** ).

OPEC oil flow

Meanwhile, Middle East Economic Survey (MEES) **reported** OPEC oil production remained steady in May, averaging 25.75 million b/d, a drop of 30,000 b/d from April's total.

However...

21/3,K/26      (Item 8 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

08689713      SUPPLIER NUMBER: 18257780      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
U.S. international transactions fourth quarter and year 1995. (includes 37 tables relating to international trade and balance of trade, 12 charts and a full page of footnotes also appear) (US economic conditions) (April 1996)

Bach, Christopher L.

Survey of Current Business, v76, n4, p45(42)

April, 1996

ISSN: 0039-6222      LANGUAGE: English      RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 10523      LINE COUNT: 00859

... official assets. - Foreign official assets in the United States increased \$11.0 billion in the fourth quarter, following a \$39.4 billion increase in the **third** ( **table C** ). In the fourth quarter assets of developing countries increased a about half the exceptional pace of the second an third quarters, and assets of industrial countries decreased.

Liabilities **reported** by banks. - U.S. liabilities to foreigners reported by U.S. banks, excluding U.S. Treasury securities, increased \$29.8 billion in the fourth quarter...

21/3,K/27      (Item 9 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

04501262      SUPPLIER NUMBER: 17997403      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Bone lead levels and delinquent behavior.**

Needleman, Herbert L.; Riess, Julie A.; Tobin, Michael J.; Biesecker, Gretchen E.; Greenhouse, Joel B.

JAMA, The Journal of the American Medical Association, v275, n5, p363(7)

Feb 7, 1996

ISSN: 0098-7484      LANGUAGE: English      RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 6029      LINE COUNT: 00498

... CBCL cluster, adjustment for nine covariates, and adjustment for nine covariates and CBCL score at 7 years of age. P values are given for the **third** model. **Table 5** presents the subjects' **reports** of their behavior at 7 and 11 years of age. Outcomes are **reported** with and without covariate adjustment.

The outcomes from all three informant groups were concordant and followed a developmental course. At subjects' age of 7 years (Table 2), **parents reported** no lead- **related** difficulties on the CBCL and subjects' SRA scores were not significant. Teachers reported borderline associations at 7 years between lead and somatic complaints, social problems...

21/3,K/28      (Item 10 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2004 The Gale Group. All rts. reserv.

07846777      SUPPLIER NUMBER: 16894364      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The business situation. (U.S. economic conditions)**  
Moran, Larry R.; Larkins, Daniel; Webb, Michael W.  
Survey of Current Business, v75, n3, p1(5)  
March, 1995  
ISSN: 0039-6222      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT:      2106      LINE COUNT:      00194

...      with 3.8 percent.  
Corporate Profits  
Profits from current production increased \$4.3 billion in the fourth quarter after increasing \$9.6 billion in the **third** ( **table** 3).(4) (The Census Bureau has accelerated the schedule for tabulation of fourth-quarter profits **reports** in the Quarterly Financial **Report** (QFR) program; as a result, the national income and product accounts (NIPA) estimates of corporate profits published in March include complete QFR tabulations and win...

21/3,K/29      (Item 11 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

06733118      SUPPLIER NUMBER: 14391132      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Acute toxicity of vitamin A given with vaccines in infancy.**  
de Francisco, A.; Chakraborty, J.; Chowdhury, H.R.; Yunus, M.; Baqui, A.H.; Siddique, A.K.; Sack, R.B.  
Lancet, v342, n8870, p526(2)  
August 28, 1993  
ISSN: 0099-5355      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT:      1599      LINE COUNT:      00131

...      treatment, and there were no deaths. Of the 16 episodes of bulging of the fontanelle in the vitamin A supplementation group, half occurred after the **third** dose ( **table** ). In 2 cases bulging was only **reported** with the first dose. In 5 infants with 2 episodes of bulging of the fontanelle, all had fontanelle bulging after the third dose.  
Dose      Infant...

21/3,K/30      (Item 12 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

06141542      SUPPLIER NUMBER: 12721277      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Private school enrollment in metropolitan areas. (includes appendix)**  
Schmidt, Amy B.  
Public Finance Quarterly, v20, n3, p298(23)  
July, 1992  
ISSN: 0048-5853      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT  
WORD COUNT:      6443      LINE COUNT:      00609

...      district. In the remaining MSAs, there are no more than 40,000 students in the central city public school district.(12)  
RESULTS  
Tables 4-6 **report** the results of the three-equation system developed in the **third** section.  
**Table** 4 contains the results of the equation explaining the log of public school expenditures per pupil. The variable with significant coefficients all have the expected...

21/3,K/31      (Item 13 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

00000018 SUPPLIER NUMBER: 11882522 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
TM/1 - a relational spreadsheet. (Software Review) (Strategic Management  
Software Review) (Evaluation)  
Merling, John W.  
Planning Review (a publication of the Planning Forum), v20, n1, p29(5)  
Jan-Feb, 1992  
DOCUMENT TYPE: Evaluation ISSN: 0094-064X LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2921 LINE COUNT: 00248

... By creating a table for billing rates and multiplying it against  
the table containing billable hours by client, we were quickly able to  
create a **third table** containing revenues by client project. That  
revenue data table feeds directly into a number of our financial **reports**.  
We were impressed with TM/1's "turn-key" capabilities as well. Using  
TM/1's macro programming language, users can create applications that are  
...

21/3,K/32 (Item 14 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

05535784 SUPPLIER NUMBER: 11584309 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Few winners in energy, more in specialties. (chemical profits at energy  
companies) (News)**  
Plishner, Emily S.  
Chemical Week, v149, n15, p10(1)  
Nov 6, 1991  
ISSN: 0009-272X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 657 LINE COUNT: 00053

TEXT:

Chemical profits shrank at almost all energy companies in the **third**  
quarter ( **table** , below). After-tax profits from operations (excluding  
nonrecurring and extraordinary items) improved at only three out of 21  
chemical operations **reporting** : Du Pont's fibers segment earnings more  
than doubled, to \$150 million (CW, Oct. 30, p. 4); Exxon Chemical's  
earnings improved 31%, to \$85...

21/3,K/33 (Item 15 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

05122584 SUPPLIER NUMBER: 10513875 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The freight payment outsourcing solution. (third-party vendors)**  
Scelsi, Paul  
Chilton's Distribution, v90, n2, p32(3)  
Feb, 1991  
ISSN: 1057-9710 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 1915 LINE COUNT: 00157

CAPTIONS: 9 questions to ask about your **3rd party**. ( **table** ); A variety  
of **reports** available. (table)

21/3,K/34 (Item 16 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

04856686 SUPPLIER NUMBER: 09070342 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Textile stocks pull index down. (Fairchild News Service Index) (Stocks in  
Fashion)**  
Morrissey, Susan M.  
WWD, v160, n85, p28(1)  
Oct 31, 1990  
ISSN: 0149-5380 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT



WORD COUNT: 650 LINE COUNT: 00067

... percent earnings gain in the third quarter.  
The fiber category fell 3.1 percent. Du Pont lost 1 1/2 to 33 1/4 after **reporting** a 60 percent plunge in fiber earnings in the **third** quarter.

**Table** : FAIRCHILD NEWS SERVICE INDEX (10/26/90)  
Department stores Prices - Chg. in week  
Carter Hawley Hale 2 1/8 - 1/8  
Dayton Hudson 49 7...

21/3,K/35 (Item 17 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

04853122 SUPPLIER NUMBER: 09013528 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**American Petrofina earnings lower than expected for third quarter. (oil industry)**  
Oil Daily, n9608, p1(2)  
Oct 22, 1990  
ISSN: 0030-1434 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 224 LINE COUNT: 00026

... and September. Last year, maintenance problems with the company's Port Arthur refinery reduced third quarter profits.  
Independents, companies without refining and marketing operations, have **reported** astronomical increases in earnings for the **third** quarter.  
**Table** : WALL STREET/SCOREBOARD  
Related Stocks

	WEEK	ENDING	
	10/19/90	10/12/90	10/5/90
Oil Daily Index	1933.64	1911.23	2005.22...

21/3,K/36 (Item 18 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

14124613 SUPPLIER NUMBER: 08026419 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**U.S. military expenditure and the dollar.**  
Grilli, Vittorio; Beltratti, Andrea  
Economic Inquiry, v27, n4, p737(8)  
Oct, 1989  
ISSN: 0095-2583 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 2390 LINE COUNT: 00193

... variables are consistent with those found by Ayanian. An increase in U.S. military expenditure is associated with a real appreciation of the dollar. The **third table** also **reports** an estimate of the error correction mechanism, relating the change in the real exchange rate to the disequilibrium component prevailing in the previous year (the...

21/3,K/37 (Item 19 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

03645833 SUPPLIER NUMBER: 07057951 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Schlumberger third quarter earning.**  
PR Newswire, 1020NY022  
Oct 20, 1988  
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 389 LINE COUNT: 00054

NOTES: Financial **summary** - **third** quarter. ( **table** )

21/3,K/38 (Item 20 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

03463052 SUPPLIER NUMBER: 06426595 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Business continues slow as mills in U.S., overseas resist low bids.**  
(Industrial gray goods) (column)  
Jenkins, Harry  
Daily News Record, v18, n45, p17(1)  
March 7, 1988  
DOCUMENT TYPE: column ISSN: 0162-2161 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 609 LINE COUNT: 00045

... arrival. Spots have been offered at \$1.50 in secondhands with no recent covering.

On the 59-inch, 6872, 1.85 yard sheeting, spots were **reported** sold in secondhands at \$1.15, off from \$1.20. There were **reports** of a domestic mill asking \$1.25 for **third** period.

Table :

21/3,K/39 (Item 21 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

03295774 SUPPLIER NUMBER: 05240688 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**SmithKline Beckman reports results.**  
PR Newswire, PH7  
Dec 30, 1987  
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 530 LINE COUNT: 00074

CAPTIONS: Sales by business segments - **third** quarter. ( **table** ); Third quarter **report** . (table)

21/3,K/40 (Item 22 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

02792706 SUPPLIER NUMBER: 04083874  
**Third quarter construction activity strong in all sectors.**  
Butler, Jay Q.  
Arizona Business, vV33, p10(4)  
Jan, 1986  
ISSN: 0093-0717 LANGUAGE: ENGLISH RECORD TYPE: CITATION

CAPTIONS: Key sector construction activity by county 3rd qtr. 1984, 2nd and **3rd** , 1985. ( **table** ); Authorized housing units by county 3rd qtr. 1985. (table); Arizona building permits 3rd quarter 1985 by county. (table) ; **Reporting** units with greatest total value of building units 3rd qtr. 1985. (table); New single-family home sales, \$80,000+ vs. under \$80,000, Maricopa County...

21/3,K/41 (Item 23 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

02487036 SUPPLIER NUMBER: 04047416 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Is the consensus always wrong? (corporate profits)**  
Ozanian, Michael  
Forbes, v134, p254(4)  
Dec 2, 1985  
CODEN: FORBA ISSN: 0015-6914 LANGUAGE: ENGLISH RECORD TYPE:  
FULLTEXT  
WORD COUNT: 680 LINE COUNT: 00051

... August (1984 net income, \$50 million), the purchase of Pan Am's Pacific division in early 1986 and the sale of 24 hotel properties.

The **third table** lists companies expected to show at least a 10% drop in 1986 earnings. The analysts think Coleco Industries may **report** record earnings of \$3.56 in 1985. But Cabbage Patch dolls should contribute about \$560 million to 1985 revenues, and most analysts think Cabbage Patch ...

21/3,K/42 (Item 24 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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01899717 SUPPLIER NUMBER: 02838309 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
J.C. Penney's sales up.  
PR Newswire, NYPR9  
July 7, 1983  
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 283 LINE COUNT: 00032

CAPTIONS: J.C. Penney 1983 sales **summary** to July 3rd . ( **table** )

21/3,K/43 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

02269160 86926336  
**Evaluation of overhaul/replacement policy for a fleet of buses**  
A.B.M. Zohrul Kabir  
Journal of Quality in Maintenance Engineering v2n3 PP: 49-59 1996  
ISSN: 1355-2511 JRNL CODE: QMGR  
WORD COUNT: 3140

...TEXT: B engines were chosen randomly. It has been observed that all engines have undergone two overhauls and some of the engines have even undergone the **third** overhaul. **Table** I provides **summarized** information on the overhaul ages with the corresponding numbers of engines.

For the overhaul cost, information was available for second and third overhauls only. However...

21/3,K/44 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01752703 04-03694  
**What you better know about databases**  
Hayes, David C; Hunton, James E  
Journal of Accountancy v187n1 PP: 61-63 Jan 1999  
ISSN: 0021-8448 JRNL CODE: JAC  
WORD COUNT: 1475

...TEXT: can be combined in myriad ways. The software takes data in one table and relates that information to data in another table-hence the name **relational** database.

If a database contains information on a company's customers in one table, its products in a second table and the history of what each customer buys in a **third table**, their interrelationships can be used to produce a wide range of **relational** information. For example, it can produce a list of customers who buy only product A, a list of those who buy only product B, a...

21/3,K/45 (Item 3 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01438160 00-89147

**Leadership turnover, transaction costs, and external city service delivery**

Mingermayer, James C; Feiock, Richard C

Administration Review v57n3 PP: 231-239 May/Jun 1997

ISSN: 0043-3352 JRNL CODE: PAR

WORD COUNT: 5096

...TEXT: both labor-intensive and capital-intensive services. One characteristic of all these services is that their quality attributes are difficult to specify and measure. The **third table reports** estimates of social services (i.e., operation of care facilities, programs for the elderly, operation of public/elderly housing, public health programs). These are largely...

21/3,K/46 (Item 4 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01421983 00-72970

**Retail stores in poor urban neighborhoods**

Alwitt, Linda F; Donley, Thomas D

Journal of Consumer Affairs v31n1 PP: 139-164 Summer 1997

ISSN: 0022-0078 JRNL CODE: JCA

WORD COUNT: 8742

...TEXT: to the south and west.<sup>3</sup> This pattern is consistent with other geodemographic descriptions of Chicago (e.g., Metro Chicago Information Center 1994). The top **third of Table 1 summarizes** characteristics of zip codes in

21/3,K/47 (Item 5 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2004 ProQuest Info&Learning. All rts. reserv.

01348522 99-97918

**New developments in the use of measures of honesty, integrity, conscientiousness, dependability, trustworthiness, and reliability for personnel selection**

Sackett, Paul R; Wanek, James E

Personnel Psychology v49n4 PP: 787-829 Winter 1996

ISSN: 0031-5826 JRNL CODE: PPS

WORD COUNT: 17479

...TEXT: between different instruments tapping a common Big Five dimension range from .41 to .63, indicating that the different instruments tap overlapping, but not identical constructs.

**Third**, the **table reports** correlations between integrity measures and Big Five personality measures (These values are drawn from Tables 12 and 13 of Ones et al., 1993b). Parallel findings...

21/3,K/48 (Item 6 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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0144337 98-96732

**CGES warns of fourth quarter oil price slide**

Koen, A D

Oil & Gas Journal v94n27 PP: 34 Jul 1, 1996

ISSN: 0030-1388 JRNL CODE: OGJ

WORD COUNT: 402

...TEXT: said.

"Even without Iraq, the volume of OPEC crude required to meet demand and maintain normal stock levels is expected to fall sharply during the **third** quarter" ( **Table 1**). OPEC oil flow Meanwhile, Middle East Economic Survey (MEES) **reported** OPEC oil production remained steady in May, averaging 25.75 million b/d, a drop of 30,000 b/d from April's total.

However...

21/3,K/49 (Item 7 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00918316 95-67708

**An international comparative analysis of consumer attitudes toward Canada and Canadian products**

Papadopoulos, Nicholas; Heslop, Louise A; Bamossy, Gary  
Canadian Journal of Administrative Sciences v11n3 PP: 224-239 Sep 1994  
ISSN: 0825-0383 JRNL CODE: CJA  
WORD COUNT: 8805

...TEXT: are considerably more positive in terms of both ratings and ranks, along the three summary country variables, than perceptions of Canadian products. On the product **summary** variables (Table 6), more often than not Canada was ranked fourth or fifth by foreign respondents. However, on the country scales Canada is frequently ranked in first to **third** place ( **Table 7**). The somewhat lower rankings on "belie are not surprising, since this **summary** variable consists of items concerning a country's level of industrial development (economic management, technological advancement, industriousness) that are closely related to the product evaluations...

21/3,K/50 (Item 8 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00740527 93-89748

**Summary of results**

Dunkelberg, William C; Dennis, William J Jr  
NFIB Quarterly Economic Report for Small Business n78 PP: 1-28 Winter 1993  
ISSN: 0362-3548 JRNL CODE: NFI  
WORD COUNT: 4213

...TEXT: higher, though the climb may have been limited by the recent failure of expectations to match subsequent events. Strengthening sales were critical to January's **report** as they supported an improved assessment of the current status and more frequent plans to make capital outlays.

Thirty (30) percent **reported** higher sales in the fourth quarter than in **third** ( **Table 11**); 27 percent **reported** them lower. (Table 11 omitted) The seasonally adjusted Index of Small Business Sales rose six percent from October. However, with Sales Index reaching its low...

21/3,K/51 (Item 9 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00727094 93-76315

**Need, Equity and the NHS: The Distribution of Health Care Expenditure 1974-87**

Propper, Carol; Upward, Richard  
Fiscal Studies v13n2 PP: 1-21 May 1992  
ISSN: 0143-5671 JRNL CODE: FCS

WORD COUNT: 7591

...TEXT: less pro-poor distribution, not, as suggested by point comparisons between 1972 and 1985 data, from a pro-rich to a less pro-rich distribution. **Third**, **Table 2** indicates that increases in **reporting** of morbidity are spread fairly evenly across income groups. If anything, the increase in **reporting** of morbidity has been greater in low than in high income groups. Thus the difference between the 1972 data and that presented here (and in...

21/3,K/52 (Item 10 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00702236 93-51457

**Final SEC proxy disclosure rules**

Kotner, Karen B

Benefits Quarterly v9n2 PP: 22-30 Second Quarter 1993

ISSN: 8756-1263 JRNL CODE: BFQ

WORD COUNT: 4268

...TEXT: the SEC's review of over 900 comment letters received in response to the proposed rules.(2)

The new disclosure requirements include the following:

- \* A **summary** compensation table, which provides a comprehensive overview of executive compensation practices

- \* Two stock option and stock appreciation rights (SARs) tables, one providing grant information and the other exercising information. A **third table** may be required in the event options or SARs are repriced.

- \* A long-term incentive awards table, which sets out information concerning long-term stock...

21/3,K/53 (Item 11 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00382818 87-41652

**Network Designers Need a Data Base**

Sharma, Roshan Lal

Network World v4n47 PP: 13-14 Nov 23, 1987

ISSN: 0887-7661 JRNL CODE: NWW

...ABSTRACT: with an elaborate traffic analysis program, these databases allow the determination of a time-consistent peak-hour traffic. Another useful database in network design should **relate** a transmission technology or a particular tariff to each **node** or location, while a **3rd database** should contain several network system design parameters. Although analytical tools generally are sufficient to predict system performance, each network system architecture must be understood before...

21/3,K/54 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

9527900 CMP ACCESSION NUMBER: BTN19930712S1790

**An Introduction To Computer Terminology**

BUSINESS AND TRAVEL NEWS, 1993, n 264, 23

PUBLICATION DATE: 930712

JOURNAL CODE: BTN LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: The Future of Business Travel Technology

WORD COUNT: 2474

... and columns of data-and conducts searches by using data in specified columns of one table to find additional data in another table.

In a **relational** database, the rows of a table represent records (collections of information about separate items) and the columns represent fields (particular attributes of a record).

In conducting searches, a **relational** database matches information from a field in one table with information in a corresponding field of another table to produce a **third table** that combines requested data from both tables. For example, if one table contains the fields EMPLOYEE-ID, LAST-NAME, FIRST-NAME, and HIRE DATE, and another table contains the files DEPT, EMPLOYEE-ID, and SALARY, a **relational** database can match the EMPLOYEE-ID fields in the two tables to find such information as the names of all employees earning a certain salary...

21/3,K/55 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0788877 BW0284

**CQN MERIX: Correcting Merix Corporation Reports Second Quarter 1998 Results  
and Major Plant Expansion Project News Release**

December 22, 1997

Byline: Business Editors

CORRECTION...by Merix

In BW0259, (MERIX) Merix Corporation, **Reports** Second Quarter 1998 Results and Major Plant Expansion Project, header on **third table** should read "Q2 97" instead of "Q297" and "Q1 98" instead of "Q497." Also, header on fourth table should read "Q2 98" instead of "Q298..."

21/3,K/56 (Item 1 from file: 813)  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1317314 NYTH038  
**Friendly Ice Cream Corporation Reports Second Quarter and First Half 1998  
Results**

DATE: July 30, 1998 06:00 EDT WORD COUNT: 1,670

**CORRECTION:**

In NYTH038, Friendly Ice Cream Corporation Reports Second Quarter and First Half 1998 Results, in the third financial table entitled "Friendly Ice Cream Corporation Consolidated Statements of Operations for the Six Months ended June 28 1998 and June 29, 1997," the Net loss item...

21/3,K/57 (Item 2 from file: 813)  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1076196 MNTU017  
**SITEL Corporation Reports Record Annual Revenues and Net Income**

DATE: April 1, 1997 16:29 EST WORD COUNT: 1,392

**CORRECTION:**

In MNTU017, Sitel Corporation Reports Record Annual Revenues and Net Income, moved earlier today, the third (last) table should read "Year ended December 31, 1995" rather than "Year ended December 31, 1996," as

incorrectly transmitted by PR Newswire.

SOURCE SITEL Corporation

21/3,K/58 (Item 3 from file: 813)  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0639910 CH005B  
FIRST UNION EARNINGS RISE 22 PERCENT IN 3RD QUARTER 1993

DATE: October 14, 1993 11:51 E.T. WORD COUNT: 1,259

...Other	13,390	18,285
Total	811,234	837,970
Mortgage servicing rights	151,348	183,196
Credit card premium	63,739	71,140

(a) Third quarter 1993 ratios are based on estimates. Capital ratios for 1992 are not restated for pooling of interest acquisitions.

AVERAGE BALANCE SHEET SUMMARY

	1992
(In thousands)	3Q
Loans, net	40,939,068
Earning assets	53,408,229
Total assets	60,805,234
Noninterest-bearing deposits	7,879,225...